

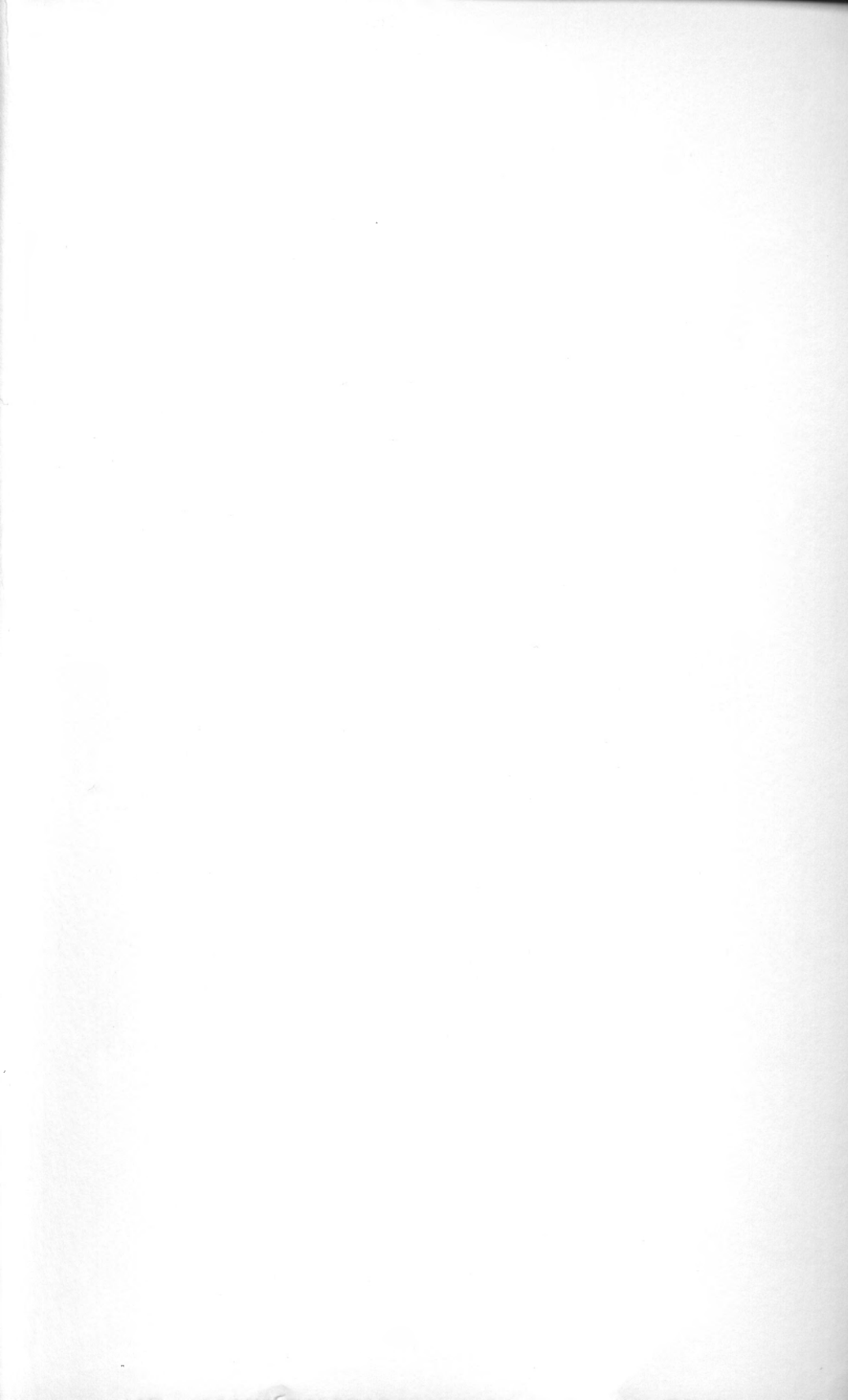


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1995-96

95-96 CATALOG

SOUTHERN COLLEGE

of Seventh-day Adventists



SOUTHERN COLLEGE OF SEVENTH-DAY ADVENTISTS

1995-1996 CATALOG

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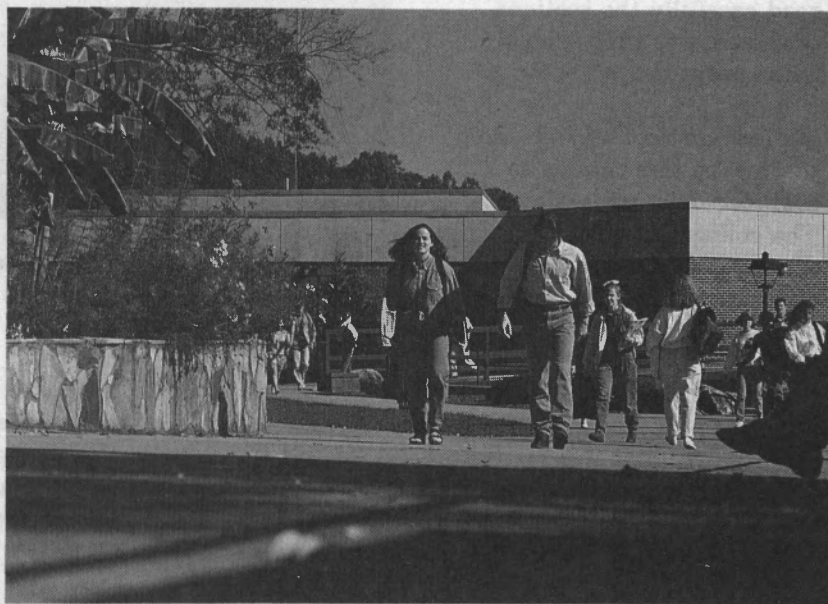
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Admissions Information

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(1-800-SOUTHERN)



In publishing this catalog, every reasonable effort has been made to be factually accurate. The publisher assumes no responsibility for editorial, clerical, or printing errors. The information presented is, at the time of printing, an accurate description of course offerings, policies, and requirements of Southern College. The provisions of this catalog, however, are not to be regarded as an irrevocable contract between the college and the student. The college reserves the right to change any provision or requirement at any time, without prior notice.

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Southern Adventist University
P. O. Box 629
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Something to keep in mind —

Although this CATALOG is not a textbook, you will refer to it often during your college career. It describes the academic program you select and the requirements you must fulfill to graduate. Before you enroll at Southern or register for any succeeding semester, you should satisfy yourself that you are familiar with this catalog.

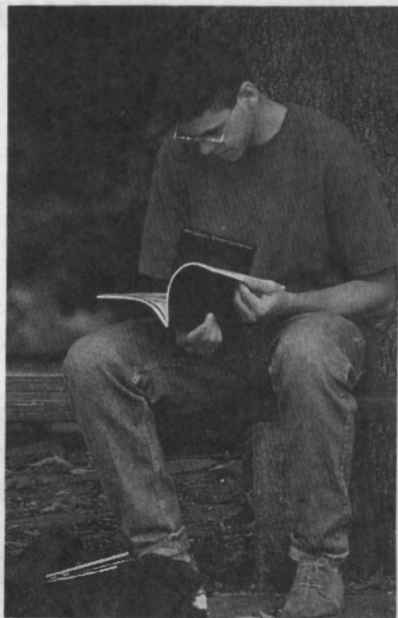
Two important parts of your academic life are General Education and your field of concentration. You will find it especially valuable to read carefully the sections of the catalog that explain these programs.

We have made every attempt to prepare this catalog so everyone may understand it.

The college provides an academic adviser to help you. Although an adviser is helpful, you are the one who selects your program of study and you bear the final responsibility of knowing what its requirements are.

Because changes may occur in your program before you graduate, you may encounter contradictions between this catalog and advice you receive later in your college experience. Do not hesitate to seek counsel from your adviser or the chair of your department. You may also wish to talk to the Director of Records and Advisement or the Vice President for Academic Administration.

Do not lose this catalog. It is your "college manual."



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CONTENTS

Academic Calendar	4
This Is Southern College	6
Admissions	10
Student Life and Services	14
Academic Enrichment Services	19
Academic Policies	22
General Degree Requirements	22
General Education Course Requirements	25
Departments of Instruction	46-218
Allied Health	46
Art	58
Behavioral Science	62
Biology	70
Business Administration	79
Chemistry	93
Computer Science and Technology	98
Education and Psychology	107
Engineering Studies	129
English and Speech	131
Health, Physical Education, and Recreation	137
History	145
Industrial Technology	151
Journalism and Communication	157
Mathematics	167
Modern Languages	172
Music	178
Nondepartmental Courses	188
Nursing	190
Physics	200
Religion	206
Interdepartmental Programs	219
Medical Science	219
General Studies	219
Non-Degree Preprofessional Programs	221
Anesthesia	221
Dentistry	221
Law	222
Medicine	222
Optometry	224
Osteopathic Medicine	224
Pharmacy	224
Veterinary Medicine	225
Software Technology Center	226
Financial Policies	227
Student Costs	227
Special Fees and Charges	228
Housing	229
Method of Payment	232
Financial Aid	242
The Registry	252
Index	263

ACADEMIC CALENDAR

1995-96 School Year

The Southern College summer term consists of four 4-week sessions. Students in attendance during the 1994-95 school year may register at any time during the week immediately preceding the session.

1st Summer Session

May 9	Registration
May 9	Classes Begin
May 10	Late Registration Fee
May 11	Last Day to Add a Course/Fee for Class Change
May 19	Last Day to Drop and Automatically Receive a "W"
May 26	All Withdrawals After This Date Receive "F"
June 2	Classes End

2nd Summer Session

June 6	Registration
June 6	Classes Begin
June 7	Late Registration Fee
June 8	Last Day to Add a Course/Fee for Class Change
June 16	Last Day to Drop and Automatically Receive a "W"
June 23	All Withdrawals After This Date Receive "F"
June 30	Classes End

3rd Summer Session

July 3	Registration
July 3	Classes Begin
July 4	Independence Day Observed
July 5	Late Registration Fee
July 6	Last Day to Add a Course/Fee for Class Change
July 15	Last Day to Drop and Automatically Receive a "W"
July 21	All Withdrawals After This Date Receive "F"
July 28	Classes End

4th Summer Session

July 30	Registration
July 31	Classes Begin
August 1	Late Registration Fee
August 2	Last Day to Add a Course/Fee for Class Change
August 11	Last Day to Drop and Automatically Receive a "W"
August 18	All Withdrawals After This Date Receive "F"
Aug 21-25	ACT Exam
August 24	Classes End

1st Semester

Aug 17-20	Faculty Colloquium
August 27	ACT Exam
Aug 27-28	Freshman Orientation

1st Semester, cont.

Aug 28, 29	Registration by Appointment
August 30	Classes Begin
August 30	Late Registration Fee
September 6	Fee for Class Change
September 12	Last Day to Add Course
October 19	Mid-term Ends
October 20-22	Mid-semester Break
October 27-29	Alumni Homecoming
November 2	Last Day to Drop and Automatically Receive a "W"
Nov 6-17	Pre-Registration/Advisement
Nov 22-26	Thanksgiving Vacation
December 8	All Withdrawals After This Date Receive "F"
Dec 18-21	Semester Exams
Dec 22-Jan 6	Christmas Vacation

2nd Semester

January 7-8	Registration for Pre-registered Students
January 8	Registration by Appointment
January 9	Classes Begin
January 9	Late Registration Fee
January 16	Fee for Class Change
January 22	Last Day to Add Course
January 23	Senior Class Organization
February 29	Mid-term Ends
March 1-10	Spring Break
March 15	Last Day to Drop and Automatically Receive a "W"
Mar 25-Apr 5	Pre-Registration/Advisement
April 7-8	College Days
April 8	Senior Deadline for Correspondence/Incompletes
April 12	All Withdrawals After This Date Receive "F"
April 29-May 2	Semester Exams
May 5	Commencement/Semester Ends

1st Summer Session, 1996

May 7	Registration and Classes Begin
May 31	Classes End

2nd Summer Session, 1996

June 4	Registration and Classes Begin
June 28	Classes End

3rd Summer Session, 1996

July 1	Registration and Classes Begin
July 26	Classes End

4th Summer Session, 1996

July 28	Registration
July 29	Classes Begin
August 22	Classes End

THIS IS SOUTHERN COLLEGE

Southern College of Seventh-day Adventists is a four-year co-educational institution established by the Seventh-day Adventist Church* primarily to serve its constituents in the southeastern part of the United States.

MISSION STATEMENT

Southern College of Seventh-day Adventists provides students, faculty, and staff with an environment for balanced development of the intellectual, spiritual, physical, and social dimensions of life in harmony with biblical principles. In a context of liberal arts and professional curricula, our campus community emphasizes academic scholarship, vocational preparation, cultural understanding, and a relationship with Jesus Christ leading to a life of service.

EDUCATIONAL PHILOSOPHY AND OBJECTIVES

The purpose of higher education in the Seventh-day Adventist Church is rooted in a comprehensive theological understanding of humanity in the world. The following is a summary of this understanding:

- (1) Seventh-day Adventists believe that God is the Creator and Sustainer of the earth and its inhabitants. He is the Source of all knowledge.
- (2) Created in the image of God for the purpose of communion with Him, mankind possessed harmonious physical, mental, spiritual, and social attributes.
- (3) As a result of sin, these attributes were seriously marred, but God in His love provided a redemptive plan for the restoration of His image in humanity, thus preparing individuals for eternal personal fellowship with God.

In the context of this theological understanding, education is viewed as an essential element of redemption, including an awareness of each individual's relationship to God and a commitment of service to mankind. Education, consequently, must focus on developing the whole person. Southern College attempts to provide a spiritual, intellectual, social, and physical environment which encourages this development through the following specific objectives.

Spiritual

The spiritual goal of Southern College is to enable students to grasp Christian beliefs and values as understood by the Seventh-day Adventist Church. Along with three hours of mandatory religion course work for each year of attendance, students have religious convocations and various opportunities for Christian fellowship and service to help them better internalize these ideals.

*This college is operated by the Southern Union Conference of Seventh-day Adventists, which is comprised of the churches in the states of Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

Intellectual

The intellectual goal of Southern College is to help students confront the ideas and values which underlie civilization. Course requirements and general education options aim at broadening and deepening the students' outlook. An honors program challenges the most capable students, while academic awards recognize a range of scholarly achievements.

Occupational

The occupational goal of Southern College is to prepare students for service in a practical world. Although that does not always mean specific career orientation, the major and minor course work offers useful competencies as well as skills related to specific vocations.

Social

Regarding the relationship of individuals to society, the goal of Southern College is to encourage students to attain the social maturity necessary for successful family and community living. Southern College provides activities and courses aimed at developing healthy interpersonal relations, communication skills, and decision-making abilities. This goal includes a commitment by the college to involve its students and staff in service activities which benefit both its regional constituency and local community.

Physical

Regarding personal health, the goal of Southern College is to educate students to be active in promoting their own physical well-being. Southern College is smoke-, alcohol-, and drug-free by policy, and the cafeteria offers a meatless diet. Health-oriented courses and activities combine to encourage a balance of exercise, rest, diet, study, work, and recreation.

HISTORY

In 1892 the educational venture that developed into Southern College had its beginning in the small village of Graysville, Tennessee. The school became known as Graysville Academy. In 1896 the name was changed to Southern Industrial School and five years later to Southern Training School.

In 1916, because of limited acreage available for further expansion of plant facilities, the school was moved to the Thatcher farm in Hamilton County, Tennessee. The name "Collegedale" was given to the anticipated community. At its new location, the school opened as Southern Junior College and continued as such until 1944 when it achieved senior college status and the name was changed to Southern Missionary College. In 1982 the name was changed to Southern College of Seventh-day Adventists.

SETTING

Southern College's one-thousand-acre Collegedale campus is nestled in a valley eighteen miles east of Chattanooga. The quietness and beauty of the surroundings are in keeping with the college's educational philosophy.

ACCREDITATION AND MEMBERSHIPS

Southern College of Seventh-day Adventists is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award one-year certificates, associate degrees, and baccalaureate degrees. It is also accredited by the Accrediting Association of Seventh-day Adventist Schools, Colleges, and Universities.

Departments of the college are also accredited by various organizations. The Associate of Science and Bachelor of Science degree programs in nursing, including Public Health Nursing, are accredited by the National League for Nursing as surveyed by the Collegiate Board of Review. The Department of Nursing is an agency member of the Department of Baccalaureate and Higher Degree Programs of the Division of Nursing Education of the National League for Nursing. It is also accredited by the Tennessee Board of Nursing and is recognized by the Florida State Board of Nursing.

The college is approved by the Tennessee State Board of Education for the preparation of secondary and elementary teachers. Southern College is also a member of the Association of American Colleges, the American Council on Education, the Tennessee College Association, the American Association of Colleges for Teacher Education, and the National Association for Schools of Music.

ACADEMIC PROGRAM

Southern College offers 39 baccalaureate degree majors, 31 minors, 18 associate degree majors, and 4 one-year certificates. Additional preprofessional and terminal curricula are available to students seeking admission to professional schools. (See "Degrees and Curricula," page 31). Ten departments offer secondary teaching certification. Southern College is an extension campus for La Sierra University, which offers the M.Ed. degree, and Andrews University, which offers the M.S.N. degree.

STUDENTS

Sixty-five percent of the students of Southern College come from the eight states comprising the Southern Union Conference of Seventh-day Adventists. However, most of the additional states and 25 to 30 foreign countries are also represented. There are a few more women than men.

Former Southern College students are now serving in the ministerial, teaching, medical, and other services of the Seventh-day Adventist Church at home and abroad. Others are engaged in advanced study, business pursuits, government service, research activities, private and institutional medical services, and the teaching professions on all levels.

FACILITIES

The following buildings house the academic and other activities of the college:

- Brock Hall—Art, Business Administration, English/Speech, History, Journalism/Communication, Modern Languages, Instructional Media, and WSMC FM90.5 (NPR 90)
- Daniells Hall—Computer Science/Technology, Mathematics, Physics
- Hackman Hall—Biology and Chemistry

Mazie Herin Hall—Nursing
William Iles Physical Education Center—Physical Education,
Swimming Pool
Ledford Hall—Industrial Technology
McKee Library
Miller Hall—Religion Center
Student Center—Computer Center, Cafeteria, Counseling Center,
Campus Ministries, student activity rooms, K.R.'s Place
Summerour Hall—Behavioral Science, Education and Psychology
J. Mabel Wood Hall—Music
Lynn Wood Hall—Heritage Museum, Conference Rooms
Wright Hall—Administration Building

Other facilities on or near campus that may serve student needs:

Collegedale Academy—secondary laboratory school
Collegedale Seventh-day Adventist Church
Charles Fleming Plaza—shopping center with businesses serving the
college and community. Includes:
Adventist Book Center
Campus Kitchen—fast foods
Campus Shop—student bookstore and gift shop
United States Post Office
Village Market with grocery, deli, bakery
Conference Center—guest rooms available for a fee
Health Service—located at the east end of the Conference Center
Recreational Area—tennis courts, track, playing fields
Spanish-American Seventh-day Adventist Church
Arthur W. Spalding Elementary School—laboratory school
Student Apartments
Student Park
Talge Hall—men's residence hall
Thatcher Hall—women's residence hall

Various auxiliary and vocational buildings house college industries
and service departments.

ADMISSIONS

Southern College welcomes applications from students who seek a college career that unites spirituality and academic integrity and who commit themselves to an educational program designed according to Christian principles as taught by the Seventh-day Adventist Church. The college does not discriminate on the basis of age, gender, race, color, ethnic or national origin, religion, or handicap.

PREPARATION FOR FRESHMAN STANDING¹

Applicants for regular admission as freshmen must submit two satisfactory recommendations to the Admissions Office and satisfy one of the following three conditions at the time of enrollment:

Regular Acceptance

- A. Graduate from an approved secondary school, including Home Study International, with a grade point average (GPA) of at least 2.00 (on a 4.00 scale) in major subjects,² have a minimum composite score of 18 on the Enhanced American College Test (ACT) or a minimum of 710 on the Scholastic Aptitude Test (SAT) or 840 on the Recentered SAT I.
- B. Pass the General Education Development (GED) test with all sections not less than 45 or total score of not less than 225, have a composite score of 18 on the Enhanced ACT or a minimum of 710 on the Scholastic Aptitude Test (SAT) or 840 on the Recentered SAT I, and be eighteen years old by June 1 (prior to admission). Each applicant must have an official transcript of his or her grades and credits sent to the Admissions Office from the high school most recently attended.
- C. Complete a minimum of eighteen secondary school units, fourteen of which must be in major subjects², with a minimum GPA of 3.00 in the major subjects, and have a minimum composite score of 18 on the Enhanced ACT or a minimum of 710 on the Scholastic Aptitude Test (SAT) or 840 on the Recentered SAT I.

Southern College must have received a final official high school transcript or GED scores and a transcript from the high school last attended from each new student before he or she will be admitted to registration.

Acceptance on Academic Probation

- A. If either the high school GPA or ACT/SAT composite score is below the minimum requirements as stated above, the student may be accepted on academic probationary status.
- B. Students accepted on academic probation may take no more than 12 semester hours during the first semester.

¹Those planning to enter professions such as nursing or music education should consult departmental admission requirements.

²Bible, English, mathematics, natural science, social science, and foreign language.

If both the high school GPA and the Enhanced ACT composite score or SAT score are below the minimum requirements (2.00 and 18 or 710 respectively), it will be necessary for the student to take a minimum of six semester hours (in solid courses) and maintain a college GPA of 2.25 before being accepted at Southern College. These six hours may be taken at Southern College during the summer (last session excluded) or at another accredited college.

Subjects Required for Admission

Applicants to freshman standing must have the following subjects in their secondary program:

1. Three units of English, excluding journalism and speech.
2. Two units of mathematics, including algebra.
3. Two units of science or an ACT score of 14 in science reasoning. A college class in biology, chemistry, or physics must be taken in addition to general education science requirements if this condition is not met.
4. Two units of social studies. If one of these two units is not World History, HIST 174, 175, 364, 365, 374, 375, 386 or 389 must be taken as part of the general education requirements.
5. Two units in a foreign language are required for a B.A. degree. If deficient, one year of a foreign language at the college level will be required.
6. Computer competency is strongly recommended.

ADMISSION TO THE NURSING DEPARTMENT

Students applying to nursing courses as freshmen or as transfer students should refer to the Nursing section of the CATALOG for admission requirements.

ADMISSION OF TRANSFER STUDENTS

Students wishing to transfer to Southern College from another accredited college or university must follow the same application procedure as other students. Transfer credits may be applied toward the requirements for a degree when the student has satisfactorily completed a minimum of twelve semester hours in residence. Credit by examination taken at other colleges will be accepted according to Southern College standards (see "College Credit by Examination" in the Academic Policies section of the CATALOG on page 41). A maximum of 72 semester hours may be accepted from a college where the highest degree offered is the associate degree. Background deficiencies revealed by transcripts and entrance examinations will be given individual attention.

Credit will be granted for courses taken at institutions which are not regionally accredited only after the student has completed at least 16 semester hours at Southern College with a 2.00 or better average. Only those courses that are comparable to Southern College courses and for which the student has earned a "C" grade or better will be accepted.

A student who has been dismissed from another institution because of poor scholarship or citizenship, or who is on probation from that institution, is not generally eligible for admission until he can qualify for readmission to the institution from which he has been dismissed. **Transfer**

students must submit both their college and high school official transcripts to the Admissions Office before being admitted to registration. Those who do not have credit for first semester College Composition and three semester hours of college level mathematics will be required to take the Enhanced ACT (American College Test) prior to registration at Southern College.

ADMISSION OF SPECIAL STUDENTS

Mature individuals who do not meet the above college admission requirements and who do not wish to become degree candidates, or otherwise qualified students who may desire limited credit for transfer to another institution of higher learning, may register as special students. A special student may enroll for a maximum of five semester hours per term.

EXTENSION CLASSES

The Southern College classes that are taught at the site of several private Seventh-day Adventist academies (high schools) are for college credit only and are taken in addition to the student's high school load. These are extension classes and no high school level credit is given.

To enroll in an extension class, students must be members of the senior class with a grade point average of 3.00 or above during the years of their secondary education.

ADMISSION OF INTERNATIONAL STUDENTS

An international student applying to Southern College must have completed the equivalent of a United States high school (secondary) education. The student is required to list only the institutions and dates attended on the application forms, but will not be accepted to Southern College until the college has received original records or official copies of all credits, degrees, diplomas and other credentials, with validation by school or national officials. These should be in the original language, accompanied by a translation (not an interpretation) in English, and certified by an American Embassy official if possible.

The Director of Records of Southern College will evaluate academic documents received for international students based on the recommendations found in the World Education series of booklets published by the American Association of Collegiate Registrars and Admissions Officers and Patterns of Seventh-day Adventist Education, published by the General Conference of Seventh-day Adventists.

Students from countries which administer the G.C.E. (General Certificate of Education) examinations must have earned five (5) or more "0" level academic subject passes (generally at one sitting, with marks 1 through 6 or A through D). Subjects must include English, a natural science, and three others selected from a second language, mathematics, science, and social studies.

Proficiency in English, both written and oral, must be proven before admission. This may be done by taking the Test of English as a Foreign Language (TOEFL). Students whose TOEFL score is 550 meet the official admission level, but students with scores between 490 and 550 may be admitted only on condition that they will enroll for special English

language proficiency classes. These students must enroll as special advisees of the English Department which administers the language classes. Students whose TOEFL scores are below 490 are not eligible for admission to the college.

In addition to the regular college expenses, there are other expenses for an international student. (Please refer to the Financial Information section of the CATALOG.)

According to U.S. Immigration laws, international students may not work more than 20 hours per week and may be employed only on the college campus.

International students should not leave their homeland until they have in their possession:

1. An admissions letter of acceptance from Southern College
2. I-20 form (Immigration and Naturalization Service)
3. A valid passport
4. A valid visa to enter the United States
5. Sufficient funds for the first year at Southern College (in addition to the international surety deposit required of all non-U.S. citizens).

APPLICATION PROCEDURE FOR ADMISSION

- ◆ Prospective students should request application forms from the Office of Admissions.
- ◆ Completed applications should be returned to the Office of Admissions with an application fee of \$20.
- ◆ It is the student's responsibility to request any former schools (high school and college) to forward transcripts to the Office of Admissions in support of the application. These will become the property of the college. **NO TRANSCRIPT WILL BE ACCEPTED DIRECTLY FROM AN APPLICANT.**
- ◆ Students transferring from another college or university who do not have credit for first semester College Composition and three semester hours of college level mathematics will be required to take the ACT prior to registration at Southern College.
- ◆ Upon receipt and evaluation of the application, transcripts of credits, recommendations, and test scores, the Admissions Office will notify the applicant of the action taken.

WHEN TO APPLY OR REAPPLY

New students are urged to submit applications no later than the last term of the senior year of high school. Applications submitted at the beginning of the senior year will sometimes enable the college to suggest ways of strengthening the student's preparation. Because of the difficulty sometimes encountered during the summer months in obtaining necessary transcripts, test scores, and recommendations, more time will be necessary for processing late applications.

Students in residence may submit reapplications without charge until April 30; thereafter the regular application fee of \$20 will be required.

STUDENT LIFE AND SERVICES

A college is not only classroom instruction, but also a mode of association. The effectiveness of the college program is enhanced if students develop their interests and meet their needs through participation in the nonacademic activities provided. Students are encouraged to take advantage of the facilities and opportunities planned for their cultural, social, and spiritual growth.

RESIDENCE HALL LIVING

Living in a college residence hall with its daily "give and take" prepares the student to meet life with equanimity, teaches respect for the rights and opinions of others, and offers first-hand experience in adjusting to a social group. Talge Hall houses male students and Thatcher Hall houses female students.

To assure students this beneficial experience, the college requires those students who take more than three semester hours of classwork and who are unmarried, under 23 years of age, and not living with their parents or other approved relatives in the vicinity, to reside in one of the residence halls.

REHABILITATION ACT (1973) Section 504: Services for Students with Special Needs

Southern College is dedicated to the elimination of architectural and prejudicial barriers which prevent any qualified person from attending. All applications are welcomed. Students who anticipate the need for special services are encouraged to arrange with the Admissions Office for a visit to the campus at which time the applicant will receive information concerning all features of campus life and can share with the college officials any information pertinent to personal needs.

DINING

For the promotion of student health and enjoyment, Southern College provides a complete vegetarian cafeteria service, organized to serve the students' needs. The spacious dining hall is an inviting center of social and cultural life at the college, and service by the cafeteria staff is available for the many student and faculty social functions. Auxiliary dining rooms are available for meetings of various student or faculty organizations. Two vegetarian fast-food shops are also operated on the campus by the Food Service Department. K.R.'s Place is conveniently located in the Student Center and the Campus Kitchen is at nearby-by Fleming Plaza.

CHAPLAIN'S OFFICE

Any student of Southern College has the opportunity to enrich his/her personal relationship with Jesus through Campus Ministries' activities. Through the programs coordinated from the Chaplain's Office, students can engage in a wide variety of on- and off-campus spiritual activities.

CARE ministries is the acronym for Collegiate Adventist Reaching Everyone. Student leaders working with the campus chaplain direct outreach activities such as Campus Ministries, CABL (Collegiate Adventist for Better Living), Destiny Drama Company, Collegiate Missions, and numerous religious programs.

Southern College enjoys a reputation of having a strong commitment to mission service. There are opportunities for short-term mission projects as well as traditional student missionary positions or volunteer task force positions. The "Call Book" which is published by the General Conference Youth Ministries Department is available in the Chaplain's Office located in the Student Center on the third floor of Wright Hall. Students interested in any mission or task force position may work through the Chaplain's Office for information and placement in mission positions.

The campus chaplain serves as a pastor for the college campus. The chaplain is available for spiritual counseling, personal and relationship concerns, or any situation in which students desire personal and professional counseling. It is the desire of the Chaplain's Office to provide a safe, confidential setting for students to discuss personal issues.

Since many college students choose a life partner while here at the college, the Chaplain's Office provides various premarital inventories and counseling programs to aid in the establishment of healthy Christian relationships.

COUNSELING AND TESTING SERVICE

During registration each student is assigned an academic adviser who will assist in program planning and give advice and guidance on academic questions throughout the school year. Students may also seek counsel concerning academic or personal problems from any member of the faculty.

Students with personal problems who wish assistance from a professional counselor should contact the Counseling Center. Personnel trained in counseling and testing are available to those with social and personal problems.

The testing service works in close cooperation with the counseling service in providing guidance information to both students and counselors. Students are urged to take advantage of the testing service as a means of obtaining information useful in personal, educational, and career planning.

Southern College is an established non-Saturday National Test Center for the administration of entrance examinations for students applying to graduate and professional schools. Contact the Counseling Center for test applications and test date information.

HEALTH SERVICE

The Health Service is administered by a nurse director in cooperation with a college physician and the Vice President for Student Services. The director uses the physician's standing orders and maintains regular office hours. The college physician holds regular clinic hours each weekday morning.

An infirmary is provided and staffed in the evenings and at night by live-in registered nurses who are continuing for their B.S. degrees. These nurses are available to other students on an on-call basis.

The Health Service is available to all residence hall occupants and all students taking seven or more hours (three hours in the summer). The infirmary is available to all residence hall occupants. There is no charge for seeing a nurse or using the infirmary. There is a minimal charge to cover costs of equipment used in some treatments. Medications given are charged by the pharmacy.

All students taking seven hours or more must purchase the Student Accident and Sickness Insurance Plan or show proof of coverage by another policy. Spouses of students and those taking less than seven hours may also purchase the plan. A policy brochure describing complete benefits and terms is given to each student at registration. In case of major illness, students may be referred to off-campus hospital facilities.

ORIENTATION PROGRAM

Southern College has a personal interest in the success of the student desiring a college education. There is much that the student must do to get acquainted with the academic, social, and religious life of the college by perusing this bulletin and the *Southern College Student Handbook*. Instruction and counsel are given which will help the student better understand the college program and what is expected of him/her as a citizen of the college community.

Orientation for new freshman students is held prior to registration for the fall term. It includes examinations and instruction helpful in course planning. The student is introduced to the facilities, purposes, and functions of the college. Social occasions are also provided when students may meet faculty members and fellow students. All new freshman students are required to attend the orientation program.

STUDENT EMPLOYMENT SERVICE

Southern College encourages every student enrolled to organize his/her educational program on the study-work plan. It is a policy of the college to give students first priority for jobs. If a student wants to work, is physically and emotionally able to work, and has arranged his class schedule to accommodate a reasonable work schedule, he should be able to obtain employment on campus. Students seeking employment should contact the Personnel/Student Employment Office.

SENIOR PLACEMENT SERVICE

One of the services of the college is that of assisting graduates in preparation for seeking employment. The Counseling Center offers assistance in résumé and cover letter preparation, graduate school and employment application processing, and job interview preparation. The offices of Student Services and Counseling serve as liaison services in bringing graduates and employers together through job fairs, employment interview opportunities, the senior placement brochure, and the maintenance of senior placement files.

STUDENT ASSOCIATION

Every student at Southern College who is taking eight or more semester hours of classwork is a member of the Student Association with voting privileges in the election of officers. Opportunities for leadership development and for cooperation in achieving the objectives of Southern College are afforded by the Association. The Association assists the college administration and faculty in the implementation of policies and assumes responsibility in giving direction to campus activities entrusted to it.

The Association's activities are coordinated and communicated through the Student Senate and Cabinet and their several committees. The activities include the publishing of the weekly newspaper, *Southern Accent*; the yearbook, *Southern Memories*; the weekly announcement sheet, *Campus Chatter*; and the student-faculty pictorial directory, *Joker*.

The activities and responsibilities of the officers and the detailed organization of the Student Association are outlined in the *Student Association Constitution and Bylaws*.

CAMPUS ORGANIZATIONS

Aside from the Student Association and its committees, more than thirty campus organizations provide opportunities for enrichment, leadership training, and enjoyment. They include church-related organizations—Campus Ministries, Student Ministerial Association, Collegiate Adventists for Better Living; clubs related to academic interests sponsored by the departments; social clubs—Married Couples' Forum, Sigma Theta Chi (women), Upsilon Delta Phi (men), Black Christian Union, and special interest or hobby clubs.

Students may join any of the clubs but must have a cumulative grade point average of 2.25 or a grade point average of 2.50 for the previous semester to hold any elected office.

CONCERT-LECTURE SERIES

Each year a concert-lecture series featuring significant artists and lecturers is provided for students, generally in connection with the weekly assembly program. The cost of admission for students is included in the tuition.

STANDARDS OF CONDUCT

In harmony with the objectives of the college, high standards of behavior are maintained to encourage the development of genuine Christian character. Mature Christian students of sound spiritual and social integrity appreciate standards that elevate and ennoble. Admission to Southern College is a privilege that requires the acceptance of and compliance with published and announced regulations. Only those whose principles and interests are in harmony with the ideals of the college and who willingly subscribe to the social program as ordered are welcomed. It therefore follows that since students at Southern College receive an education subsidized by the Seventh-day Adventist Church, those who engage in activities determined to be detrimental to the church on or off campus will not be knowingly accepted or retained.

A student who is out of harmony with the social policies of the college, who is uncooperative, and whose attitude gives evidence of an unresponsive nature may be advised to withdraw without specific charge. The use of tobacco or alcoholic beverages, the improper use of drugs, movie theater attendance, card playing, dancing, profane or vulgar language, hazing, and improper associations are to be avoided.

Each student is expected to acquaint himself with the standards of conduct published in the *Southern College Student Handbook*. The handbook includes levels of social discipline and the appeal route. A copy may be obtained from the office of the Vice President for Student Services. Interim announcements of policies adopted by the faculty are of equal force with those listed in official publications.

ASSEMBLY AND WORSHIP SERVICES

In private parochial education it has been shown that elimination of residence hall worships and all school-wide convocations is the first step toward the separation of the school from its sponsoring church. Convocation exercises in the residence halls and for the entire student body serve educational and religious purposes. They also provide an element of unity which is one of the most desirable features of private education such as is found at Southern College. The religious emphasis weeks and the weekend church services assist in the spiritual growth of the students. Students are required to attend these services regularly. Failure to do so will jeopardize the student's current status and readmission privileges.

ACADEMIC ENRICHMENT SERVICES

E. A. ANDERSON LECTURE SERIES

The E. A. Anderson Lecture Series is an annual feature of the business curriculum. The series is made possible by the generosity of E. A. Anderson of Atlanta, Georgia, for the purpose of giving the student a broader understanding of the business world. The public is invited to attend the lectures free of charge; however, for a fee, continuing education credit is available. Lectures are presented at 8 p.m. in the E. A. Anderson Business Seminar Room, Brock Hall, Room 333.

EUGENE A. ANDERSON HEILLER ORGAN CONCERT SERIES

The Anderson Heiller Organ Concert Series was initiated in 1986 to provide world-class organ concerts. These concerts and workshops are presented by foremost organists from throughout the world. Selected performances are broadcast internationally on the American Public Radio Program, "Pipe Dreams." The series is made possible through the generosity of Eugene A. Anderson of Atlanta, Georgia, for the education and enjoyment of the students and the public. Because of its uniqueness, this series attracts organists and other fine arts enthusiasts from all areas of the country.

The Anton Heiller Memorial Organ, a 70-stop 108-rank tracker, was dedicated in the Collegedale Seventh-day Adventist Church in April 1986. A second instrument, a mean-tone organ with two manuals and 13 stops, is housed in Ackerman Auditorium. Both were built by John Brombaugh and Associates of Eugene, Oregon.

FLORENCE OLIVER ANDERSON LECTURE SERIES

Each year the Nursing Department at Southern College of Seventh-day Adventists brings nationally recognized experts in the health field on campus to address the professional community. Southern College believes education to be a dynamic lifelong process and is committed to providing professional nurses with continuing education opportunities, as well as exposing student nurses to the importance of self-initiated education.

This series of seminars is dedicated to excellence in nursing and is made possible by the generosity of the late Florence Oliver Anderson.

CHAMBER MUSIC SERIES

Ackerman Auditorium in J. Mabel Wood Hall is the setting for the Chamber Music Series. Each semester two or three artists and/or ensembles provide a variety of listening experiences for students, faculty, and the community. Artists are chosen in such a fashion that over a four-year period a student can become acquainted with solo and ensemble music of many style periods. Master classes are often scheduled in conjunction with a concert.

CLASSIC FILM SERIES

Christian education involves the difficult challenge of learning to live in a secular society while remaining critical of its values. To this end, the Classic Film series, sponsored by Student Services and the History Department, seeks to present films that are historically significant but also informative and entertaining. They are intended to augment the educational and cultural experience of students at the college level and encourage the application of critical thinking to popular culture. Critical notes are provided to aid in deciphering the film's latent content from its manifest content.

E. O. GRUNDSET LECTURE SERIES

The E. O. Grundset Lecture Series is jointly sponsored by the Southern College Chapter (Kappa Phi) of the Beta Beta Beta National Biological Honor Society and the Biology Department. Five or more lectures are presented each semester by guest speakers. The general public is invited.

The lectures are divided into two categories. The *Technical Research Seminars* are designed to update students, faculty, and the community on current biological research as well as to illustrate to students how biological knowledge is acquired through research. The *Natural History Lectures* are less technical and provide a general understanding of organismic and ecological biology, either by a description of the plants or animals in a certain region or an account of the behavior, habits, or ecology of certain species.

ROBERT H. PIERSON LECTURE SERIES

The Robert H. Pierson Lectureship is sponsored annually by the Department of Religion at Southern College of Seventh-day Adventists under the auspices of the Ellen G. White Memorial Chair in Religion to facilitate the training of ministers in Biblical Studies, Theology, History, Adventist Heritage, Homiletics, Administration, and in other areas of preparation.

THOMAS F. STALEY LECTURE SERIES

The Thomas F. Staley Foundation is a private, nonprofit organization, established to administer funds to further the Evangelical witness of the Christian church on college campuses.

Administered through the Religion Department, the trustees of this Foundation provide speakers who truly believe and effectively propagate the Gospel of Jesus Christ in its historical and scriptural fullness.

INSTRUCTIONAL MEDIA

The Instructional Media Service provides audio-visual services to the college administration, faculty, staff, and students. The full-time staff includes a director, secretary, and service technician.

LIBRARIES

McKee Library provides both print and nonprint educational materials for the students and faculty of the college. Open stacks, pleasant areas to read or study, current periodicals, and a large microform collection contribute to the enjoyment of learning. Special collections in the library

include the Seventh-day Adventist Heritage Collection: books and materials by SDA authors and about the Seventh-day Adventist Church; and the Dr. Vernon Thomas Memorial Civil War and Abraham Lincoln Collection: books, letters, manuscripts, newspapers, pamphlets, pictures, paintings, maps, and artifacts of this period in American History.

The combined collection of these libraries contains approximately 400,000 items. Over 1,000 periodicals are currently received which include a large number of titles kept permanently on microform. McKee Library has an online computerized card catalog as well as a computerized magazine index and offers access to the Internet. Various databases are available on CD-ROM. The library is a member of Ohio College Library Center and charter member of the Southeastern Library Network automated systems.

The facility has been in use since 1970, and provides seating for 350, including 183 individual study carrels.

MARINE BIOLOGICAL STATION

Southern College is affiliated with two marine biological stations to enrich and supplement its on-campus programs. One of these facilities, the Bahamian Field Station, is located on the island of San Salvador, Bahamas, and provides the opportunity for students to study tropical ecology, both terrestrial and marine. This station provides lodging, classroom, and laboratory facilities for studying coral reef, sandy beach, rocky shore, and mangrove swamp biomes.

The affiliation with Walla Walla College's Rosario Beach Marine Biological Station on Fidalgo Island in the Puget Sound provides students with opportunities to study some of these similar habitats in a temperate climate. This station in the state of Washington also furnishes facilities for summer classwork and research. Its close proximity to biomes ranging from sea bottom to Alpine tundra provides an excellent opportunity for instruction and investigation.

WSMC FM90.5

WSMC FM90.5 (NPR 90) is a 100,000 watt, noncommercial, fine arts radio station licensed to Southern College.

WSMC provides training for students in the field of broadcasting. The station regularly hires between 15 and 20 students as on-air announcers, or production assistants. The station is an excellent way for the student to receive hands-on experience in the field of broadcasting.

WSMC represents the college to the Greater Chattanooga community, with a coverage area including a 100-mile radius of Chattanooga. Founded in 1961, it is the oldest noncommercial fine arts station in southeastern Tennessee. WSMC was the first radio station in a seven-state region to receive satellite capability. The station also exists as an outreach of the college—striving to enhance the quality of life in the community.

The station produces high-quality fine arts, informational, educational, and inspirational programs. WSMC is affiliated with National Public Radio, American Public Radio, and the Adventist Radio Network.

WSMC's broadcast studios are located in Brock Hall. The facility includes a studio-quality production room, news room, music library, and on-air studios.

ACADEMIC POLICIES

PLANNING A COURSE OF STUDY

When planning their course work, students should acquaint themselves with their chosen program of study and graduation requirements outlined in this CATALOG. Students who have not decided their course of study before entering college may take a general program exploring several fields. This approach need not result in loss of credits if carefully planned.

Freshman students may consult faculty members during the summer months before the beginning of the fall term. Students planning to teach should consult the Department of Education and Psychology to include teacher education courses as a part of their program in order to qualify for denominational and state certification.

Degree candidates are responsible for satisfying all degree requirements. They may choose to meet the requirements of any one catalog in effect during the period of residency. If students discontinue their education for a period of twelve months or more, they must qualify according to the catalog in force at the time of their return.

GENERAL DEGREE REQUIREMENTS: Baccalaureate Degree

The general degree requirements for a baccalaureate degree are as follows:

- ◆ Satisfactory make-up of admissions deficiencies. (See page 11).
- ◆ A minimum of 124 semester hours with a resident and cumulative grade point average of 2.00 (C) or above.* Students earning the Bachelor of Music degree will take 132 semester hours.
- ◆ A minimum of 40 hours of upper division credit, to include at least 14 upper division hours in the major for a B.A. degree and at least 18 upper division hours in the major for all other degrees.
- ◆ Completion of a major and minor (two majors accepted) for a B.A. degree or completion of a major for other degrees with a cumulative grade point average of 2.25 in the major,* completion of the general education requirements, and electives to satisfy the total credit requirements for graduation. Courses completed with grades lower than a "C-" will not be applied on a major or minor. Grades of "C" or better are required for the Nursing major and grades of "C" or better are required for Nursing cognate courses.
- ◆ More than one major may be earned provided all courses required for each major and its cognates are completed. Each major must include a minimum of 20 semester hours that do not overlap with any other major or minor.
More than one minor may be earned provided all courses required for each minor are completed. Each minor must include a minimum of 12 semester hours that do not overlap with any other major or minor.
- ◆ Completion of an examination as required by the department.

*For educational certification, the minimum grade point average (GPA) of 2.50 must be met both in education and in the field of certification. In elementary education, a GPA of 2.50 is required in the major and in required non-major subjects. The music major requires a GPA of 2.25 both in applied music and other music courses. The nursing major requires a GPA of 2.50 in cognate courses as well as in the major. The medical technology major requires minimum grades of C- and a minimum average of 2.25 in the major and cognates.

- ◆ Students wishing to obtain a second degree will need to complete, beyond the 124 minimum hours required, a minimum of 30 hours, including 16 hours upper division, and a new major.
- ◆ Completion of General Education requirements as spelled out in the "General Education Requirements" section of this CATALOG.

GENERAL DEGREE REQUIREMENTS: Associate Degree

- ◆ A minimum of 64 semester hours and a resident and cumulative grade point average of 2.00 (C) or above. Nursing majors need 69 semester hours and a minimum cumulative GPA of 2.50.
- ◆ Completion of a major, the general education requirements, and electives to satisfy the total credit requirements for graduation. Courses completed with grades lower than "C-" will not be applied on a major.
- ◆ Students who have completed one associate degree and who wish to obtain another associate degree may do so upon completion of the curriculum prescribed for the second degree.

The work completed for the second degree must include at least 24 hours in residence over and above the number of hours earned for the first degree. If the second associate degree is earned subsequent to the first associate degree, the requirements for the second degree will be governed by the provisions of the CATALOG in effect at the time the student re-enters the college for work toward the second degree.

- ◆ Students who wish to obtain an associate degree at the time they receive a baccalaureate degree may do so if the degrees are in different fields. If requirements for an associate and a baccalaureate degree in the same field are completed at the same time, only the higher degree will be conferred.

ONE-YEAR CERTIFICATE REQUIREMENTS

- ◆ A minimum of 32 semester hours which meet the requirements of a specific one-year program.
- ◆ A resident and cumulative grade point average of 2.00 (C) or above. Grades in the technical area below "C-" will not be accepted.

GENERAL REQUIREMENTS: Minor

- ◆ A minimum of eighteen semester hours of which six must be upper division credit.

CLASS STANDING

Freshmen	0-23 semester hours
Sophomores	24-54 semester hours
Juniors	55-93 semester hours
Seniors	94 semester hours

Eligibility for class office requires a grade point average of 2.25 and a good citizenship record.

GRADUATION REQUIREMENTS

Degree Candidacy: A student becomes a degree candidate when s/he enters the school term during which it will be possible to complete all requirements for graduation. Formal application for graduation must be made during the fall registration of the senior year.

Dates of Graduation: The date of graduation will be (a) the date of commencement for those graduating at the close of the school year; (b) the last day of the semester for those finishing first semester; and (c) for others, the last day of the month in which graduation requirements are met. A commencement service occurs at the end of the second semester of each school year.

Transcripts: Before a student will be allowed to graduate, transcripts of all correspondence and transfer credits must be received at the Records Office.

Participation in Graduation Exercises: Students are allowed to participate in commencement exercises only if they have completed all the courses they need for graduation or if they submit approved plan for completing their courses during the summer.

Prospective Summer Graduates: A \$200 fee is charged to students who are listed on the May graduation program as prospective summer graduates. This fee is refundable only if the degree requirements are completed by August 31. Criteria for students to be listed on the graduation program as prospective summer graduates are as follows:

1. They must lack no more than six hours of regular coursework or eight hours of internship.
2. They must submit a plan showing how they can complete the hours they lack in the summer.
3. They must have all Incomplete grades made up, challenge examinations completed, etc. at the same time as the May graduates—three to four weeks prior to commencement.
4. They must meet the minimum GPA standards at Southern College, overall, and in the major as of midterm of the second semester.

Deferred Graduation: Students ordinarily graduate under the requirements of the CATALOG of the year in which they enter the college. Students who are studying for a baccalaureate degree and fail to graduate within six calendar years (four years for an associate degree), must plan to conform to the current CATALOG.

RESIDENCE REQUIREMENTS

Baccalaureate Degree: Thirty of the thirty-six semester hours completed immediately preceding the conferment of the baccalaureate degree must be taken in residency. The total hours taken in residence must include fifteen in upper division, of which nine must be in the major and three in the minor fields.

Associate Degree: Thirty of the thirty-six semester hours completed immediately preceding the conferment of the associate degree must be taken in residence. The total hours taken in residence must include fifteen in the major field of study and three in the minor if a minor is taken.

Certificate Programs: Eighteen semester hours of credit must be completed in residence immediately preceding the conferment of a one-year certificate.

Transfer Credit: Prior arrangements must be made with the Records Office to take courses for transfer credit at another college or university during any session the student is simultaneously enrolled at Southern College and during any summer after initial enrollment. See department sections of the CATALOG for classes which must be taken in residence.

PREREQUISITE FOR TAKING UPPER DIVISION CLASSES

Students must complete forty semester hours of 100 and 200 level courses (lower division) before enrolling in a 300 or 400 level course (upper division). **The English Composition and mathematics requirements in area A, Basic Academic Skills, of General Education must be met before enrollment in upper division classes.**

GENERAL EDUCATION

General Education is an important part of what students experience at Southern College. It is provided through several programs, four of which are described here—Writing Across the Curriculum, Community Service, General Education Course Requirements, and Southern Scholars.

Writing Across the Curriculum: The Writing Across the Curriculum program at Southern College is one of the longest-running programs of its kind in the nation. The goal of the program is to assist students in developing writing skills suitable to various disciplines. Such skills will also make students more competitive in the job market. Thus, candidates for the bachelor's degree must complete three writing-emphasis classes as outlined in the general education requirements. These classes are carefully tailored to emphasize personal growth in writing skills through both spontaneous and planned writing exercises. Students should also expect writing requirements in courses other than those designated as writing-emphasis courses.

Community Service: Promotion of voluntary, unselfish service to mankind is a thread that runs through all programs of study at Southern College. Volunteerism, however, cannot be mandated. It can only be encouraged. Students at Southern are encouraged to volunteer for community service through government, philanthropic, cultural, political, church, medical, educational, environmental, and other organizations and agencies or through individual projects. Based on nominations from each academic department, Community Service Awards are presented each year at the annual Awards Assembly to students who have made an exceptional contribution of time and effort in serving others.

General Education Course Requirements: While recognizing the validity of many different general education programs, the faculty of Southern College have designed the following sequence that provides development of academic skills and opportunities for self-fulfillment, and conveys basic values of both the Seventh-day Adventist Church and western civilization. Students may exercise considerable latitude when selecting courses to comply with General Education requirements. A comprehensive general education test is required of all four-year seniors.

AREA A. BASIC ACADEMIC SKILLS

A graduate of Southern College can use the skills of reading, writing, and mathematics.

Underlying all general education requirements are the basic academic skills of English and mathematics. It is important for a graduate to be able to discern an author's organization, arguments, and supports, and to write coherently, fluently, and grammatically. Graduates need numeric and symbolic computation skills to function successfully in our scientific and technological society.

All English Composition and mathematics requirements in Area A must be completed before upper division work is undertaken.

Upper division transfer students may take Area A requirements concurrently with upper division classes.

1. English

6-9

6-9

ENGL 101 and 102 are required for both the associate and the bachelor's degrees.

Students with an Enhanced ACT English score below 17 must take ENGL 099 before enrolling in ENGL 101.

2. Mathematics

0-3

0-3

Students with a Mathematics ACT score below 22 must take one mathematics course (100 level or above).

MATH 080 is required of all students who meet none of the following criteria: 1) ACT Mathematics score of 16 or above, 2) ACT Mathematics Elementary Algebra subscore of 8 or above, 3) Completion of high school Algebra II with a grade of C or better.

3. Candidates for the bachelor's degree must complete three writing-emphasis classes.

These classes are identified by a "(W)" following the course name, [e.g., History of the South (W)] in the departmental listings. One such class must be in the student's major field and one must be outside the major field. The third may be chosen from any area.

The writing done as a part of the program overseas completed by students majoring in International Studies will be accepted in place of a specially designated "W" course in the major.

AREA B. RELIGION

6

12

A graduate of Southern College has a knowledge of the Bible and a sense of Christian community based on the teachings, beliefs, and history of the Seventh-day Adventist Church.

A correct understanding of the human condition results from a knowledge of the Bible as God's word, a commitment that springs from that truth, and a system of values derived from such knowledge and insight.

Transfer students must take 3 hours for each year or part thereof in attendance at an SDA college with a minimum of 6 hours. Bachelor's degree students must take at least three hours from each of the first two sub-areas and include one upper-division class.

Semester Hours	
Assoc.	Bachelor's
6	12

AREA B. RELIGION, cont.**1. Biblical Studies**

All RELB courses.

2. Religion and Theology Studies

All RELT courses. (Only one of RELT 317, 318, or 424 will apply.)

3. Professional Studies

One course may be chosen from RELP 251, 354, 465, or 468.

AREA C. HISTORY, POLITICAL, AND ECONOMIC SYSTEMS

A graduate of Southern College has knowledge of history and the skill to analyze political and economic systems.

It is essential that one have an historical perspective in a society that allows its members a voice in shaping its political, social, and economic institutions.

Students with less than one secondary school credit for World History must include one of the following: HIST 174, 175, 364, 365, 374, 375, 386 or 389.

1. History

All HIST courses except 490.

2. Political and Economic Systems

All PLSC courses; GEOG 306; ECON 213, 224, 225.

[Students studying for licensure in elementary education may take GEOG 204 for C-2 credit.]

AREA D. LANGUAGE, LITERATURE, FINE ARTS

A graduate of Southern College can recognize the impact of arts and humanities on life and integrate such knowledge into personal experience.

Language, literature, speech, and the fine arts convey ideas, values, and emotions. An acquaintance with these modes of communication enhances the ability to express oneself and fosters an appreciation of the cultural heritage of world civilization and the complexities of human existence.

Bachelor's degree students must include at least 2 hours in each of 3 sub-areas. Students entering Southern College who have less than two secondary school credits of foreign language and who are pursuing a Bachelor of Arts degree must complete the elementary level of a foreign language.

Degree programs that do not require SPCH 135, 136, or 236 have at least one required course in the major that contains an oral communication emphasis.

1. Foreign Language

FREN 101-102, 207-208; GRMN 101-102, 207-208; SPAN 101-102, 207-208; RELL 251-252, 271-272, 311-312.

	Semester Hours	
	Assoc. Bachelor's	

AREA D. LANGUAGE, LITERATURE,**FINE ARTS, cont.**

3	9
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2. Literature

All literature courses offered by the English Department and ENGL 326.

3. Music and Art Appreciation

HMNT 205; MUHL 115, 320, 321, 322, 323; MUCH 215; ART 218/318, 344, 345.

4. Speech

SPCH 135, 136, 236.

AREA E. NATURAL SCIENCE

3-6	6-9
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A graduate of Southern College comprehends the basic concepts of science and can apply the scientific method to problem solving.

A study of the sciences develops an inquiring attitude toward one's environment. It provides individuals with empirical and rational methods of inquiry and an awareness of both the potential and the limitations of pure and applied science in solving problems.

Bachelor's degree students must take at least 3 hours from each of 2 sub-areas. Only one of the following may apply: BIOL 424, PHYS 317, 318. Students who have less than two secondary school units in science, and a Science Reasoning ACT standard score less than 14, must take 3 hours of science above the usual requirements; e.g. associate degree students must take 6 hours and bachelor's degree students must take 9 hours.

Southern Scholars must take a sequence of two classes from the same department. See the "Honors Studies Sequence" section on page 30 of the CATALOG for clarification.

1. Biology

BIOL 101-102, 103, 104, 151-152, 225, 226, 250, 314, 424.

2. Chemistry

CHEM 103, 111-112, 113-114, 151-152.

3. Physics

PHYS 137, 138, 155, 199, 211-212, 213-214, 317, 318.

4. Earth Science

ERSC 105.

AREA F. BEHAVIORAL, FAMILY, HEALTH SCIENCES

2	5
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A graduate of Southern College will have a knowledge of and be able to apply the dynamics of personal relationships, social interaction, and healthful living toward effective service.

The basic social units significantly shape people's lives, and a knowledge of their workings is necessary to understand ourselves and others.

Semester Hours
Assoc. Bachelor's**AREA F. BEHAVIORAL, FAMILY,
HEALTH SCIENCES**

2 5

Bachelor's degree students must include at least 2 hours in two of the following sub-areas:

1. Behavioral Science

PSYC 124, 128, 217, 224, 233, 315, 349, 377, 415; SOCW 211, 212, 233, 375, 424, 296/496; EDUC 217, 427; all SOCI courses except 201, 223, 230, 365.

2. Family Science

BUAD 128; SOCI 201, 223, 233, 365; SOCW 233; PSYC 233.

3. Health Science

HLED 173; FDNT 125; NRSRG 265.

AREA G. ACTIVITY SKILLS

3 6

A graduate of Southern College will understand how to live a balanced life by following the principles of wellness and using leisure time wisely. The Seventh-day Adventist philosophy stresses the balanced development of the whole person. Toward this goal, education in the use of leisure time is important, particularly in creative, recreational, and practical skills. Associate degree students may take a maximum of 2 hours in any sub-area; bachelor's degree students may take a maximum of 3 hours in any sub-area. All students must take coursework from G-3.

1. Creative Skills

All MUPF courses; ART 104-105, 119-120, 235; ENGL 314; JOUR 125, 315. [Students studying for licensure in elementary education may take ART 230 for G-1 credit.]

2. Practical Skills

ACCT 103, 221-222; BUAD 126; CPTE 245/345, 249/349; CPTR 104, 105, 106, 107, 116, 120, 131, 132, 217; EDUC 250; ENGL 313; ENGR 149, 150; JOUR 103, 205; LIBR 125; OFAD 105, 115, 218, 223, 228, 245/345; SOCW 101; TECH 145, 149, 154, 164, 174, 223, 264/364.

3. Recreational Skills

PEAC 125 is required for both the associate and the bachelor's degrees. An additional PEAC course is required for the bachelor's degree. Optional pass/fail grading is available for these courses.

SOUTHERN SCHOLARS (Honors Program): The honors program is designed for students who bring to their baccalaureate studies a high degree of motivation and intellectual curiosity. Special projects, interdisciplinary studies, and designated honors courses provide a challenging and intellectually stimulating educational experience. Degrees of depth and breadth are attained in this experience beyond those normally attained in regular baccalaureate studies.

The program is administered by an Honors Committee which admits students to the program and discontinues honors status of those who fail to maintain minimum program standards. Its members also advise individual Southern Scholars and continually monitor their progress.

Eligible students will be invited to become Southern Scholars during registration. Freshmen are eligible if they have a high school GPA of 3.70 or higher. Other students must have completed at least 31 and at most 62 semester hours with a cumulative GPA of 3.50 or higher.

To continue as Southern Scholars, students must complete a minimum of twelve credits each semester and thirty-one credits each calendar year. They must also enroll in appropriate honors sequence courses, receive a B (3.00) average or higher in the honors sequence courses and maintain a minimum cumulative GPA of 3.50. All honors students are expected to graduate within a four-year period unless extenuating circumstances justify an extension by the honors committee.

Ordinarily, all courses of the honors sequence must be taken in residence. Limited exceptions may be made by the honors committee in the case of transfer students. Students already enrolled at Southern College who wish to take honors sequence classes at another institution must secure prior approval from the honors committee.

After completing one year in the honors program, Southern Scholars may receive a waiver for the cost of auditing one class each semester that they remain in the program. Beginning with their third year Southern Scholars will receive a tuition refund equivalent to four three-hour classes. The "per hour" rate for a 16-hour class load will be the basis for calculating the refund. Southern Scholars also receive a 100 percent tuition waiver for Honors Seminar, HMNT 451, 452, calculated according to the tuition waiver policy explained on page 236.

HONORS STUDIES SEQUENCE

A. General Education

Honors students must meet regular general education requirements with the following stipulations:

1. Area B-2. One of the following courses must be selected: RELT 317, 318, 368, 424, or 467.
2. Area D-1. Foreign language competency must be attained at the intermediate level.
3. Area D-2. ENGL 445 must be selected.
4. Area D-3. HMNT 205 must be selected.
5. Area E. MATH 181 or MATH 215 and one of the following science sequences must be selected: BIOL 151-152; CHEM 151-152; PHYS 211-212 with PHYS 213-214.

B. Honors Seminar

HMNT 451, 452, a sequence of eight seminar sessions, one each month, September through April. Taken during the junior or senior year.

C. Project (2-3 hours, Directed Study)

A significant scholarly project, involving research, writing, or special performance, appropriate to the major in question, is ordinarily completed the senior year. Ideally, this project will demonstrate an understanding of the relationship between the student's major field and some other discipline. The project is expected to be of sufficiently high quality to warrant a grade of A and to justify public presentation. The

completed project must be approved by the Honors Committee in consultation with the student's supervising professor three weeks prior to graduation. The 2-3 hours of credit for this project is typically done as directed study or in a research class.

GRADUATION WITH ACADEMIC HONORS

Students graduating with a cumulative GPA of 3.50 or above will have the degree conferred as follows: 3.50-3.74, *cum laude*; 3.75-3.89, *magna cum laude*; 3.90-4.00, *summa cum laude*. The appropriate designations will appear on the diploma.

HONOR ROLL/DEAN'S LIST

At the conclusion of each semester of the school year, students who have carried a minimum of 12 semester hours and who have attained the following grade point averages will be included in the honors group indicated:

3.25 Honor Roll

3.50 Dean's List

3.75 Distinguished Dean's List

STUDENT MISSION/TASK FORCE CREDIT

Students may earn twelve hours of elective credit while participating in the Student Mission/Task Force programs. Details are available in the office of the College Chaplain. Students who wish to serve as student missionaries or task force workers must plan their programs a year in advance to fulfill necessary prerequisites.

MAJOR AND MINOR REQUIREMENTS

Each major consists of thirty hours or more in the chosen field of specialization of which a minimum of fourteen for a Bachelor of Arts degree and eighteen for all other bachelor's degrees must be upper division credit. The total semester hours required for each major for the Bachelor of Science, Bachelor of Business Administration, Bachelor of Music, and Bachelor of Social Work degrees varies with the field of specialization chosen.

All minors consist of at least eighteen semester hours. Six hours of a minor must be upper division credit.

The specific requirements for majors and minors are given under the respective disciplines in the section "Courses of Study."

DEGREES AND CURRICULA

The Bachelor of Arts degree consists of four years of course work that places a student's major field of study in the context of a liberal arts education. To encourage a wide range of studies, a minor is required. A foreign language component is required.

The Bachelor of Science degree consists of four years of course work that places the student's major field of study in the context of a liberal arts education. The degree permits greater concentration in the field of study. No minor or foreign language study is required except as specified for certain majors.

The Bachelor of Business Administration degree is a professional degree consisting of a four-year program with concentrations available in

various fields of business. Requirements for this degree are outlined in the Business and Office Administration Department section.

The Bachelor of Music degree is a professional degree consisting of four years of course work designed to meet the needs of students wishing to receive teaching credentials. Requirements for this degree are outlined in the Music Department section.

The Bachelor of Social Work degree is a professional degree consisting of a four-year program of courses designed to meet the needs of students wishing to go into the social work profession. Requirements for this degree are outlined in the Behavioral Science Department section.

The Associate of Arts degrees is a two-year program designed to meet the needs of students who wish to pursue a short general studies program.

The Associate of Science degree is a two-year program designed to meet the needs of students who wish to pursue a short occupational or pre-professional program.

The One-Year Certificate is available for students in the Auto Body Technician and Auto Mechanics Technician programs. Requirements for these certificates are outlined in the Industrial Technology Department section.

Preprofessional Curricula are programs designed to prepare students to enter professional schools. In some cases preprofessional curricula will lead to an associate degree.

CURRICULUM CHART

<u>Department</u>	<u>Degree</u>	<u>Major</u>	<u>Minor</u>
Allied Health	BS	Medical Technology	
	AS	Pre-Cytotechnology	
	AS	Pre-Dental Hygiene	
	AS	Pre-Nutrition and Dietetics	
	AS	Pre-Occupational Therapy	
	AS	Pre-Physician Assistant	
	AS	Pre-Physical Therapy	
	AS	Pre-Speech Language Pathology & Audiology	
	AS	Pre-Surgeon's Assistant	
Art	BA	Art	Art
	BS	Art-Computer	Art-Computer
		Graphic Design	Graphic Design
Behavioral Science	BS	Beh Sci-Family Studies	Behavioral Science
	BSW	Social Work	Family Studies Sociology
Biology	BA	*Biology	Biology
	BS	*Biology	
Business. & Office Administration	BBA	Accounting	
	BBA	Computer Info Systems	
	BBA	Management	
	BBA	Marketing	Marketing
	BS	Business Admin	Business Admin
	BS	Long-Term Health Care	
	BS	Office Admin	Office Admin
	AS	Accounting	
	AS	Office Admin	
Chemistry	BA	*Chemistry	Chemistry
	BS	*Chemistry	

<u>Department</u>	<u>Degree</u>	<u>Major</u>	<u>Minor</u>
Computer Science & Technology	BBA	Computer Info Systems	Computer Science
	BA	Computer Science	
	BS	Computer Science	
	AS	Architectural Studies	
	AS	Computer Applications	
	AS	Computer Science	
Education & Psychology	BA	Psychology	Psychology
	BA	Psychology (Elem Ed K-8)	
	BA	Social Science (Elem Ed 1-8)	
	BS	Science and Math Studies (Elem Ed 1-8)	
		Secondary Teaching—see *asterisked majors	
Engineering Studies	AS	Engineering Studies	
English	BA	*English	English
General Studies	AA	General Studies	
	AS	General Studies	
Health, PE, & Recreation	BS	*Health, PE, Rec	Hlth, PE, Rec
	BS	Health Science	
	BS	Corp/Com Wellness Mgmt	
History	BA	*History	History Political Economy
Industrial Technology	Cert	Auto Body Technician	Technology
	Cert	Auto Mechanics Technician	
	Cert	Graphic Arts Prep	
	Cert	Technical Plant Services	
Journalism/ Communication	BA	Broadcast Journalism	Advertising Broadcast Journalism News Editorial (Journ) Public Relations Sales
	BA	Journ (News Editorial)	
	BA	Public Relations	
	AS	Media Technology	
Mathematics	BA	*Mathematics	Mathematics
	BS	*Mathematics	
Modern Languages		(1 year abroad req)	(1 semester abroad req)
	BA	International Studies Emphasis in French, German, or Spanish	
Music	BA	Music	Music
	BMus	*Music Education	
Nursing	AS	Nursing	
	BS	Nursing	
Physics	BA	*Physics	Physics
	BS	*Physics	
Religion	BA	Religious Studies	Practical Theology Religion Biblical Languages
	BA	Theology	
	BA	*Religious Education	

Cert = One-year certificate program

*Secondary teaching certification available for these disciplines

PREPROFESSIONAL CURRICULA

Southern College offers preprofessional and pre-technical programs in a wide variety of fields which may prepare students for admission to professional schools or to enter technical careers. The following preprofessional curricula are offered at Southern College:

Anesthesia	Osteopathic Medicine
Dental Hygiene	Pharmacy
Dentistry	Physical Therapy
Law	Radiology Technology
Medical Technology Medicine	Respiratory Therapy
Occupational Therapy	Veterinary Medicine
Optometry	

An A.S. degree in Allied Health is available to students who fulfill preprofessional requirements for programs designated in the Allied Health section. Because preprofessional and technical admission requirements may vary from one professional school to another, students should become acquainted with the admission requirements of their chosen school.

Detailed requirements for non-degree preprofessional curricula are outlined by department or in the section on "Interdepartmental Programs" (See Index).

REGISTRATION

Students are expected to register during the scheduled registration periods designated in the school calendar. Registration is complete only after they have finished all procedures and returned registration forms to the Records Office. Freshmen are required to participate in the orientation activities.

Late Registration. Permission to register late must be obtained from the Director of Records. Students failing to register during the scheduled registration periods will be charged a late registration fee. The course load of a late registrant may be reduced according to the amount of classwork missed. No student may register after two weeks of the semester have elapsed.

Changes in Registration. To avoid changes in registration, students should carefully consider the program of courses necessary to meet their objectives. To avoid subsequent adjustments, a balance should be maintained between the course load, work program, and extracurricular activities.

To make program changes, students must obtain the appropriate change of registration voucher at the Records Office, obtain the necessary signatures indicating approval of the change, and return the form to the Records Office. Course changes and complete withdrawals from the school become effective on the date the voucher is filed at the Records Office. A fee will be assessed for each change in program after the first week of instruction.

A student may not change from one section to another of the same course without the approval of the instructor.

A student may withdraw from a class up to two weeks after midterm and receive a grade of "W" automatically. A student withdrawing from a class

after that date and up to two weeks before the last day of classes will be assigned a grade of "W" or "WF" by the teacher. The grade for any withdrawal during the final two weeks of the semester will automatically be "F."

Auditing Courses. With the approval of the department, students may register on an audit basis in courses (other than private lessons) for which they are qualified. Auditors are to be admitted to classes of limited enrollment only if there are places after all students who wish to enroll for credit have been accommodated. Class attendance is expected but examinations and reports may be omitted. With the approval of the instructor, a student may change a course registration from audit to credit or from credit to audit only during the first week of instruction. No credit is given for courses audited, and the fee is one-half of the regular tuition charge.

Canceled Classes. The Vice President for Academic Administration or a department may cancel a class for which fewer than six students enroll. This policy applies to ordinary classes but not to directed study courses, private lessons, and other special classes such as special methods of secondary teaching. Students enrolled in canceled classes should confer with their advisers to determine alternate means to complete their schedules.

COURSE LOAD

College courses are expressed in semester hours. A semester hour consists of one fifty-minute class period per week for one semester. Thus, two-semester-hour classes meet two hours a week and three-semester-hour classes meet three hours a week. A laboratory period of two and one-half to three hours is equal to one class period. Students should expect to study up to two hours outside of class for each fifty-minute period the class meets. Ideally, a sixteen-semester-hour class load should require up to 32 hours of study each week by the student. Except by permission of the Vice President for Academic Administration, a student may not register for eighteen or more semester hours.

To qualify for a baccalaureate degree in four years, a student must average between fifteen and sixteen hours per semester. The summer term may be used to advantage by students wishing to complete degree requirements in less than four years or by students having to take reduced programs of studies during the regular academic year. The typical class load during the summer is one three-hour class per session.

Study-Work Program. It is important that the student adjust the course load to achieve a reasonable balance in study and work. During registration the student should confer with his/her adviser in planning the proper balance of study and work. In determining an acceptable study-work program, the following will serve as a guide:

<u>Course Load</u>	<u>Maximum Work Load</u>
16 hours	16 hours
14 hours	20 hours
12 hours	26 hours
10 hours	32 hours
8 hours	38 hours

ACADEMIC ADVISEMENT

Southern College is committed to assist every student in the area of academic advisement. Every full-time student is assigned an academic adviser from his/her major field and is required to consult with the adviser before registering for classes.

The responsibility of meeting graduation requirements belongs to the individual student. In planning their schedules all students should carefully follow the instructions in the catalog, recommendations of their advisers, and reports of academic progress issued from the Records Office. In the event of a discrepancy between an adviser's word and the catalog, final interpretation of graduation requirements rests with the Records and Advisement Office.

Seniors must file an application for graduation at the fall registration of their senior year. Previous to their senior year students should check periodically with the Records and Advisement office to determine whether they are meeting all curriculum requirements satisfactorily.

As early as possible in the process of curriculum planning, students who have chosen a career in teaching should consult the Teacher Certification Officer regarding the requirements for teaching credentials.

GRADING SYSTEM

Mid-semester and semester grade reports are issued to the student and parents of students termed "dependent" for income tax purposes. Only semester grades are recorded on the student's permanent record. The following system of grading and grade point values is used:

A	4.0 grade points per hour	D	1.0 grade points per hour
A-	3.7 grade points per hour	D-	0.7 grade points per hour
B+	3.3 grade points per hour	F	0.0 grade points per hour
B	3.0 grade points per hour	W	Withdrawal
B-	2.7 grade points per hour	WF	Withdrew Failing (0.0 grade points per hour)
C+	2.3 grade points per hour	AU	Audit
C	2.0 grade points per hour	I	Incomplete
C-	1.7 grade points per hour	P	Pass
D+	1.3 grade points per hour		

A student may receive an "I" (Incomplete) because of illness or other unavoidable delay. Students who are eligible for an incomplete must secure from the Records Office the proper form and file the application with the teacher to receive an incomplete. There is a charge of \$7.50 for processing grades of incomplete. **Any incomplete which is not removed by the end of the following term (Fall, Spring) will automatically become an "F."**

A course may be repeated before the student takes a more advanced course in the same field. Only the last grade will be counted on repeated courses. No course may be repeated more than once without permission from the Vice President for Academic Administration.

The grade point average is calculated by dividing the total number of grade points earned by the hours attempted.

STUDENT RECORDS

A student's record is regarded as confidential, and release of the record or of information contained therein is governed by regulations of the federal law on "Family Educational Rights and Privacy." Only directory information, such as a student's name, photograph, address, telephone listing, birthplace and date, major fields of study, participation in officially recognized activities and sports, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended, may be released by the institution without consent of the student unless the student has asked SC to withhold such information.

Parents of students termed "dependent" for income tax purposes are entitled to access to the student's educational records. The law also provides for the release of information to college personnel who demonstrate a legitimate educational interest, other institutions engaged in research (provided information is not revealed to any other parties), and certain federal and state government officials.

A student may inspect and review records and is entitled to challenge the content of records.

A more thorough explanation of records may be obtained from the Records Office. The Director of Records will further explain and clarify the Family Educational Rights and Privacy Act to students, parents, or interested parties upon request.

ACADEMIC HONESTY

Morally and spiritually, Southern College is dedicated to scholastic integrity. Consequently, both students and faculty are required to maintain high, ethical Christian levels of honesty.

Faculty Responsibilities:

1. Teachers must explain clearly the requirements for assignments, examinations, and projects, such as "open book," "take home," or "peer collaboration."

2. Teachers may assume "no collaboration" is the rule unless they state otherwise.

Student Responsibilities:

1. Students assume responsibility to avoid plagiarism by learning the proper procedures for acknowledging borrowed wording, information, or ideas. Otherwise students might innocently misrepresent others' material as their own.

2. Students unfamiliar with procedures for citing sources should confer with their teachers.

3. Students are to assume that all course work is "no collaboration" unless stated otherwise by the teacher.

Departmental Policies:

Some departments, because of the nature of their programs, have additional honesty policies which have the same force as those published here. Such policies will be presented to students before implementation.

Procedures for Handling Academic Dishonesty:

1. When a teacher suspects academic dishonesty in some form, such as cheating or plagiarizing, the teacher must first confront the student with the dishonesty. If the student and teacher cannot resolve the situation, or if the student's grade will be affected, then the Vice President for Academic Administration must be consulted.

2. In established instances of academic dishonesty, the usual procedures for the teacher to follow will be to:

- a. Give the student a failing grade on the exam, assignment or project if the magnitude of either is not sufficient for failing the class.
- b. Give the student a failing grade in the class if failing the exam, assignment or project would constitute failing the class. The teacher will then write up the incident and state the penalty administered, giving a copy to both the Vice President for Academic Administration and the student.

3. Two incidents of academic dishonesty make a student eligible to be dismissed from college. However, the student may then appeal the action through the established appeal procedures spelled out in the "Grievance Procedure" section of this CATALOG.

ACADEMIC PROBATION AND DISMISSAL

When for any reason a student's Southern College or cumulative GPA falls below 2.00, the student will be placed on academic probation and restricted from holding office in any student organization.

Any baccalaureate senior with a grade point average of less than 2.25 in his/her major will also be placed on academic probation. Candidates for an associate of science degree must have a GPA of at least 1.95 before being accepted for their final year and at least 2.00 after attempting 53 or more semester hours. Candidates for a one-year certificate must have at least a 2.00 average at the end of the second semester of enrollment. No more than one additional semester of enrollment will be permitted. If the 2.00 grade point average is not then reached, the student will be dismissed.

Transfer students must have a grade point average of at least 2.00 in order to be eligible for regular admission to Southern College.

A student will be subject to academic dismissal when the Southern College or cumulative grade point average fails to reach the levels indicated below. The academic record will be reviewed by a committee, and the Vice President for Academic Administration will notify the student in writing of the committee's decision.

Semester Hours Attempted

6 - 48

49 - 64

65 - 80

81 - 93

94 - 116

117 - up

G.P.A./Subject to Dismissal

1.50

1.65

1.75

1.85

1.95

2.00

A student academically dismissed may be readmitted only after demonstrating maturity and motivation for a college career. The dismissed student may be required to complete successfully at least one term of college-level courses at another institution prior to readmission at Southern College.

Students receiving financial aid must also meet an academic progress policy set by the federal government. For further explanation see page 243, "Southern College Academic Progress for Federal and Institutional Student Financial Aid."

RIGHT OF PETITION

Students who believe there is a valid reason for requesting variance from or exception to an academic policy stated in the CATALOG may make a petition to the Vice President for Academic Administration for consideration of their case after obtaining the advice and signature of the department chair of their major. The petition must contain a statement of the request and supporting reasons. Students will be notified in writing by the Vice President for Academic Administration of the action on petitions within five working days. Petition forms are available from the Records Office.

GRIEVANCE PROCEDURE

Students who believe that their academic rights have been infringed upon or that they have been treated unjustly with respect to their academic program are entitled to a fair and impartial consideration of their cases. They should do the following to effect a solution:

1. Present the case to the teacher or teachers concerned.
2. If necessary, discuss the problem with the department chair.
3. If agreement is not reached at this level, submit the matter to the Vice President for Academic Administration.
4. Finally, ask for a review of the case by the Grievance Committee, chaired by the Vice President for Academic Administration or his designee and including three other faculty members and two students selected by the Academic Affairs Committee. Both the student and the teacher involved in the case are entitled to appear before the committee or to present a written statement of the case. The decision of the committee shall be presented in writing to the individuals involved within three days of the committee meeting unless a later time is agreed upon by both parties. The decision of the committee is binding and will be implemented by the teacher involved or the Vice President for Academic Administration.

ABSENCES

Class. Attendance at class and laboratory appointments is expected. Teachers prepare an absence policy for each class, which includes an explanation of penalties, if any, for absences, and the procedure for making up work, if such is allowed. It is the responsibility of teachers to publish their policies for each class at the beginning of each semester, but it is the students' responsibility to familiarize themselves with the practices of each teacher from whom they are taking classes. Generally speaking, teachers will not excuse absences for reasons other than illness, authorized school trips, or emergencies beyond the students' control.

Students are not penalized if they incur absences while participating in school-authorized activities, but they are held responsible for work they miss and it is their responsibility to initiate arrangements to make up their assignments. One and one-half absences are given for missing a 75-minute class, two for missing a 100-minute class, etc.

Examination. Because of problems concerning time, expense and fairness, final examinations will be taken as scheduled in the official examinations schedule. In the case of illness verified by Student Health Service or a physician, death in the immediate family, three examinations scheduled consecutively in one day, or four or more examinations scheduled

in one day, a final exam may be rescheduled upon approval by the teacher and the Vice President for Academic Administration. The rescheduled examination will be given at a time convenient to the teacher.

When examinations are rescheduled because of three scheduled consecutively in one day or four in one day, the last examination of the day will normally be the one rescheduled. Examinations rescheduled for any reason other than those listed above, may require a fee of \$63 per examination. All rescheduling requests will be made on a form available at the office of the Vice President for Academic Administration.

Assembly. Assemblies are held each Thursday at 11:00 a.m. During weeks of spiritual emphasis, assemblies are held on Tuesday as well. Occasionally, assemblies will be held in the evening or may begin at 10:30 a.m. on Thursday. All students are required to attend 16 assemblies each semester. Failure to meet this assembly requirement may result in suspension of registration. Exceptions to the assembly attendance requirement are made by the Office of Student Services only for legitimate direct work or class conflicts with scheduled assemblies. Any excuses for absences from assembly must be approved by the Vice President for Student Services.

A special series of orientation assemblies is scheduled during the fourth summer session.

LIMITATIONS ON CLASS ATTENDANCE

Classes at Southern College are open to registered students only. Information disseminated in the classroom or other places of learning is the primary product that the college sells, hence visitors may not enter such gatherings unless they are official guests of the institution with legitimate business in a classroom or have the permission of the instructor. Visitors who attend classes may not engage in the discussions of a class unless invited to do so.

Teachers and the institution reserve the right to remove legitimate students from classes if their behavior threatens the purposes of the class by exceeding the bounds of normal academic freedom.

Teachers conducting extension classes from other institutions on the Southern College campus share the rights spelled out by this policy.

WAIVER EXAMINATIONS

Upon the approval of the department chair and the Vice President for Academic Administration, students may obtain a waiver of curricular requirements by successfully completing a comprehensive examination—written, oral, manipulative, or otherwise, as determined by the department involved. A fee of \$48 per examination is charged.

ENGLISH LANGUAGE STUDY

Southern College does not offer a total program in English as a Second Language, but maintains course work for a limited number of foreign students whose English language skills are marginally below the official admission level of a TOEFL score of 550. For details, see the Admissions and English Department sections of the Catalog.

NONTRADITIONAL COLLEGE CREDIT

In addition to credit earned in the traditional classroom setting, Southern College accepts credit earned by two other means—challenge examinations and correspondence courses.

The goals and objectives of the college emphasize not only facts and concepts but also values and attitudes which are not easily transmitted through correspondence courses or measured by examinations. These values and attitudes can best be developed by the student's interacting over a period of time with peers and teachers committed to moral excellence, critical thinking, and the pursuit of truth. For this reason, most college credits should be earned through class participation. However, the college will permit a maximum of one-fourth of the credit required for a given degree to be earned by these nontraditional means.

College Credit by Examination. The college recognizes three types of examinations for credit: challenge examinations prepared by a department which must be passed at "B" level or above, approved College Level Examination Program (CLEP) subject examinations which must be passed at the sixty-fifth percentile or above, and the Advanced Placement Examinations which must be passed with a score of three or better.

Not all classes listed in the catalog are open to challenge examinations. Students must obtain clearance from the department chair for the class they propose to challenge before petitioning to earn credit by examination. Students must also furnish evidence of adequate preparation to challenge a class before the department chair assigns a teacher to prepare a challenge examination. A student may challenge a given course by examination only once. No CLEP or challenge exam may be attempted after the student has been enrolled in that course beyond the second week of a semester. **No course may be challenged as part of the last thirty hours of any degree.** Grades are recorded for departmental challenge examinations and scaled scores are recorded for nationally normed examinations. Permission to take a challenge examination while in residence must be obtained from both the department chair and the Vice President for Academic Administration.

Students may earn a maximum of twelve hours of credit by examination in courses that do not appear in the college catalog if the evaluating tests are approved by the Academic Affairs Committee.

Credit for challenge and/or validation examinations will not be placed on a student's permanent record and is, therefore, not transferable until that student has successfully completed twelve semester hours in residence at Southern College.

Fees charged for challenge examination and credit are listed under "Special Fees and Charges" in the financial section of this CATALOG. Additional information concerning challenge examinations may be obtained from the Records Office or the Testing and Counseling Center.

Correspondence. A maximum of twelve semester hours of correspondence or extension credit may apply toward a baccalaureate degree program and eight hours toward an associate degree.

Griggs University, a department of Home Study International, Washington, D.C., is the officially recognized correspondence school. Southern College recommends Home Study International for those students needing correspondence credit and accepts all such credits when the study

program is approved by the college prior to enrollment. The college accepts credits from correspondence schools which are accredited by NUCEA (National University Continuing Education Association) on the basis that credits are accepted from other regionally accredited colleges.

A student will be permitted to carry correspondence work while in residence only if the required course is unobtainable at the college. Correspondence courses, whether taken while in residence or during the summer, must be approved in advance by the college.

Correspondence work may not apply on the upper division requirements of the major or minor. A minimum grade of "B" must be earned to apply on the lower division requirements for a major. A course in which the student earned a grade of "D" or "F" while in residence may not be repeated by correspondence. No correspondence credit will be entered on the student's record until s/he has earned a minimum of twelve hours in residence with an average of at least "C." Official transcripts must be in the Records Office before a diploma will be ordered. The graduation date will be the last day of the month after the official transcript is received.

EXTENSION CLASSES

Extension classes are college classes offered on the campuses of Seventh-day Adventist academies in the Southern Union as an opportunity for seniors to earn college credit in skills areas that will fulfill part of the General Education requirements at Southern College. (See "Extension Classes," page 12, for admission criteria.) The classes that Southern College accepts are:

ENGL 101	College Composition	3 hours
MATH 120	College Algebra	3 hours
MATH 121	Trigonometry	2 hours

The extension classes must duplicate as nearly as possible their college counterparts in content, degree of difficulty, testing, and grading. Students who successfully complete any of these classes will receive credit in Area A of the General Education requirements. Instructors are academy teachers who are qualified with appropriate credentials and experience.

CONTINUING EDUCATION

Southern College makes continuing education credit available through the Records and Advisement Office. Sponsors of organizations wishing to offer Southern College continuing education certificates must complete the following steps:

1. Secure approval of the program by
 - a. applying at the Records and Advisement Office at least two weeks before conducting the workshop/seminar/conference and
 - b. submitting with their application the topic of the presentation, an outline of the presentation, and the name of the presenter(s) with evidence credentials.
2. File an evaluation of the workshop/seminar/conference following the presentation. The college will furnish evaluation forms.
3. Participants in continuing education events must pay institutional processing fees to receive their certificates.

TRANSCRIPTS

Students may obtain transcripts of their academic record upon a written request to the Office of Records and Advisement. A \$5 fee will be charged for all transcripts requiring one-day services and individual requests requiring an excess of more than five transcripts. Telephone requests from students, and telephone and written requests from someone on their behalf cannot be honored.

A student may receive an unofficial transcript for evaluative purposes by applying in person at the Records Office. Official transcripts given directly to a student will be stamped "Student Copy." No transcript will be issued for a student whose account is not paid in full or who is delinquent in payment of student loans. For further clarification regarding transcripts, diplomas, and test scores see page 236.

SEQUENCE OF COURSES

A student may not receive credit for a course which is a prerequisite to a course for which s/he has already received credit.

COURSE NUMBERS

Each course number consists of three figures as follows:

HIST 354. Latin America (C-1), (W)**3 hours**

The first numeral indicates class year status as follows:

- 0—Developmental (no credit)
- 1—freshman level (lower division)
- 2—sophomore level (lower division)
- 3—junior level (upper division)
- 4—senior level (upper division)

Within a given 100 sequence there is no significance in one course number being higher than another. For instance, 265 does not necessarily mean that the course is on a higher level than 235.

Course numbers separated by a hyphen are two-semester courses in which credit for the first course is a prerequisite to the second [e.g., ENGL 101-102. College Composition]. However, credit is given for the first semester when taken alone.

Course numbers that stand alone represent courses of one semester which are complete units. Course numbers separated by a comma [e.g., HIST 154, 155. American History and Institutions] represent complete units, either one of which is counted for graduation without reference to sequence.

Designation in brackets following course titles, [e.g., MATH 103. Survey of Mathematics (A-2)] indicates the General Education area and sub-area that the class fulfills. Classes designated with a "(W)" are writing classes for General Education credit.

Students may earn credit for a cross-listed course from only one department [e.g. HIST 356 and SOCI 356].

COGNATE COURSES

Required courses related to the major which are not a part of the major are called cognate courses [e.g., students majoring in Nursing are required to take Microbiology as a cognate course].

<u>Prefix</u>	<u>Subject Area</u>	<u>Department Section of Catalog</u>
ACCT	Accounting	Business Administration
ART	Art	Art
BIOL	Biology	Biology
BMKT	Marketing	Business Administration
BUAD	Business Administration	Business Administration
CHEM	Chemistry	Chemistry
COOP	Cooperative Education	Nondepartmental Courses
CPTE	Computer Technology	Computer Science/Technology
CPTR	Computer Science	Computer Science/Technology
ECON	Economics	Business Administration
EDUC	Education	Education/Psychology
ENGL	English	English/Speech
ENGR	Engineering	Engineering Studies
ERSC	Earth Science	Physics
FDNT	Nutrition	Nondepartmental Courses
FREN	French	Modern Languages
GEOG	Geography	History
GRMN	German	Modern Languages
HIST	History	History
HLED	Health Education	Health, Physical Education, Recreation
HMNT	Humanities	Nondepartmental Courses
HPER	Health, Physical Ed, Recreation	Health, Physical Education, Recreation
JOUR	Journalism	Journalism/Communication
LIBR	Library	Nondepartmental Courses
LTHC	Long-Term Health Care	Business Administration
MATH	Mathematics	Mathematics
MDTC	Medical Technology	Allied Health
MUCH	Church Music	Music
MUCT	Music Theory	Music
MUED	Music Education	Music
MUHL	Music History	Music
MUPF	Applied Music	Music
NOND	Nondepartmental	Nondepartmental Courses
NRSNG	Nursing	Nursing
OFAD	Office Administration	Business Administration
PEAC	General Ed Activity Classes	Health, Physical Education, Recreation
PETH	Physical Education Theory	Health, Physical Education, Recreation
PHYS	Physics	Physics
PLSC	Political Science	History
PREL	Public Relations	Journalism/Communication
PSYC	Psychology	Education/Psychology
RELB	Biblical Studies	Religion
RELL	Biblical Languages	Religion
RELP	Professional Training	Religion
RELT	Religion and Theology	Religion
SOCI	Sociology	Behavioral Science
SOCW	Social Work	Behavioral Science
SPAN	Spanish	Modern Languages
SPCH	Speech	English/Speech
TECH	Technology	Industrial Technology

ALLIED HEALTH

Chair: Stephen A. Nyirady

Faculty: Joyce Azevedo, David Ekkens, Henry Kuhlman

Adjunct Faculty: Jon Lechler

Medical Technology: R. A. Ramkissoon, Patricia Rogers

The Allied Health Professions are rapidly growing areas of specialization within the health care industry. Job openings are plentiful and pay scales are comparable to other professionals in health care. The department offers a B.S. degree in Medical Technology and A.S. degrees in a number of Allied Health fields (listed on page 49).

ASSESSMENT

The Allied Health Department at Southern College is organized to coordinate the advising of students who require prerequisite courses for entrance into a variety of clinical programs in the medical, dental, and health professions. The programs in this department vary extensively depending on the particular health career and the requirements of the specific schools which offer the clinical programs. Southern College continually monitors the requirements of these clinical programs and modifies its preprofessional curricula to meet the changes when they are made. Continual assessment is made essentially by the advisers in the department who measure their effectiveness by their success in structuring programs to meet individual student needs and to meet requirements of the professional school the student will be transferring to. The entrance rate of students into professional programs is also used to assess adequacy of class offerings and program requirements.

BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY

Adviser: Henry Kuhlman

The Bachelor of Science degree with a major in medical technology consists of three years of prescribed study at Southern College and a 12- to 13-month senior year in a hospital-based medical technology program accredited by the Committee on Allied Health Education and Accreditation (CAHEA) of the American Medical Association. The hospital program affiliated with Southern College is Florida Hospital Medical Center. Internship in other CAHEA-accredited programs requires prior college approval.

The Medical Technology degree qualifies a person to take a number of national certifying examinations, including those offered by the Board of Registry of the American Society of Clinical Pathologists (ASCP) and the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). Certified laboratory professionals work in hospitals, clinics, physicians' offices, public health agencies, private laboratories, pharmaceutical firms, and research institutions.

The curriculum prescribed by Southern College is designed to meet the requirements of the college and of CAHEA. Hospitals with clinical programs may have additional requirements. Students should consult the brochures or advisers of the specific hospitals for those requirements.

Occasionally pre dental students, pre-medical students, and graduating seniors in biology or chemistry may wish to become certified Medical Technologists. This is possible if the student plans courses to fulfill the requirements of the college and the hospital program.

During the fall semester of the third year, students must apply for admission to an approved hospital-based medical technology program. Acceptance of the individual student to the senior year program is determined by the hospital. To be eligible for admission, a student must complete all of the college course requirements prior to beginning the clinical year. The overall grade point average must be acceptable to the college for graduation. Most hospital programs do not accept students with less than a 2.75 cumulative average on a 4.0 system. Although hospital acceptances are granted during the junior year, they are conditional, pending satisfactory completion of the stated admission criteria.

Written information about the affiliated hospital-based medical technology program is available through the college medical technology adviser. Acceptance criteria, pre-clinical course requirements, application procedures, tuition for the senior year, and program formats may vary at each approved hospital. Southern College charges a \$55 recording fee for the clinical year.

● MAJOR 2

MDTC 225. Introduction to Medical Technology **2 hours**

This course is designed to acquaint prospective medical technologists with the profession. The history and standards of medical technology and employment opportunities will be surveyed. Elementary clinical laboratory procedures will be taught and laboratory tours will be conducted.

● COGNATES 42

BIOL including 151-152, 315, 330, 340	17
*CHEM including 151-152, 311-314,	16
CPTR	3
MATH 120	3
BUAD 334	3

*These must be courses which could apply to a Chemistry major.

GENERAL EDUCATION REQUIREMENTS 35

AREA A	1. ENGL 101, 102	6
	2. (See Cognates)	
AREA B	Religion	9
AREA C	History, Political Science, and Economics	6
AREA D	Language, Literature, and Fine Arts	6
AREA E	(See Cognates)	
AREA F	Behavioral, Family, or Health Sciences	3
AREA G	Activity Skills	5

● **NOTE:** Grades of C- and better are required in the major and cognates. A minimum GPA of 2.25 must be earned on the major and cognates.

Twenty hours of upper division credit, including two writing (W) courses are required. One (W) course must be in a cognate area and one in a noncognate area.

ELECTIVES	14
Recommendations include:	
BIOL 316, 415, 417, 418	
CHEM 315, 321, 323	
MATH 215	
PHYS 211-212, 213-214	

TOTAL PRE-CLINICAL CREDIT HOURS	93
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HOSPITAL CLINICAL (SENIOR) YEAR	Variable
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Individual approved hospital programs should be consulted for their specific courses and credits. Approximately forty credit hours are given in the twelve to fifteen-month clinical programs. Courses taught in approved programs include:

Introduction to Medical Laboratory Science, Urinalysis, Hematology, Hemostasis, Immunology, Immunochemistry, Clinical Microbiology, Clinical Mycology, Clinical Parasitology, Clinical Biochemistry, Instrumentation, Research.

Sample Freshman Year Sequence
B.S. Medical Technology

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
BIOL 151	*General Biology	4	BIOL 152	*General Biology	4
CHEM 151	*General Chemistry	4	CHEM 152	*General Chemistry	4
ENGL 101	College Composition	3	ENGL 102	College Composition	3
PEAC 125	Conditioning	1		Area C-1, History	3
	Area C-1, History	3		Electives	2
	Area G-1/3 Act Skills	1			16
		16			

*An asterisk in front of a subject indicates Med-Tech requirement.

20 upper division credits, make-up of any admissions deficiencies, and 93 total hours must be completed prior to the clinical year.

ASSOCIATE OF SCIENCE IN ALLIED HEALTH

The Associate of Science degree in Allied Health Professions prepares the student for admission to professional programs at Loma Linda University, Andrews University, or other universities. Admission to any professional school is dependent on meeting the GPA and prerequisite requirements of the individual school. Students should consult the bulletin of the school of their choice to ascertain the entrance requirements.

Students who plan to graduate from Southern College with an Associate Degree in Allied Health must meet the A.S. degree general education requirements of SC as well as the entrance requirements of the clinical program to which they will be applying.

Applications for transfer to the junior year of colleges offering Allied Health programs must be made early in the second semester of the final year at Southern College. The lowest acceptable grade for courses to be transferred is C. A minimum grade point average of 2.00 is required for the Associate of Science degree at Southern College, but grade point averages between 2.50 and 3.50 are considered minimal for entrance to the junior year of most clinical Allied Health programs. Some programs require the Allied Health Professions Admissions Test (AHPAT).

The major Allied health areas in which a two year Associate Degree may be earned at Southern College are:

- | | |
|-----------------------------|-------------------------------|
| pre-Cytotechnology | pre-Physical Therapy |
| pre-Dental Hygiene | pre-Physician Assistant |
| pre-Nutrition and Dietetics | pre-Speech Language Pathology |
| pre-Occupational Therapy | & Audiology |
| | pre-Surgeon's Assistant |

The department also offers one-year curricula to meet requirements for entrance into the following Allied Health degree programs at Loma Linda University and most other university programs:

- Occupational Therapy Assistant (Associate in Science Degree)
- Physical Therapy Assistant (Associate in Science Degree)
- Radiation Technology (Associate and Bachelor of Science Degrees)
- Respiratory Therapy (Associate and Bachelor of Science Degrees)

For details on these or other programs not listed here and for Southern College curricula for entrance into them write:

Chair, Allied Health Department
Southern College of SDA
P.O. Box 370
Collegedale, TN 37315-0370

PRE-CYTOTECHNOLOGY

Cytotechnologists are specially trained laboratory technologists who work with pathologists to detect changes in body cells that may be important in the early diagnosis of cancer and other diseases. Using special techniques, cytotechnologists prepare cellular samples for study under the microscope and assist in the diagnosis of disease by examination of the samples. Using the findings of cytotechnologists, a physician is then able, in many instances, to diagnose cancer and other diseases even before they can be detected by other methods. Most cytotechnologists work in hospitals or in private laboratories, while some prefer to work on research projects or to teach.

Adviser: Stephen A. Nyirady

(Program meets admission requirements for Loma Linda University)
(Curriculum can be modified to meet requirements of other schools)

- Area A ENGL 101-102; MATH 120
 - Area B Religion, 6 hours
 - Area C History, 3 hours
 - Area D Foreign Lang/Lit/Fine Arts, 3 hours
 - Area E BIOL 101-102, 151-152, 225; CHEM 111-112, CHEM 113-114
 - Area F HLED 173; SOCI 230; ECON/PSYC/PLSC/SOCI, 6 hours*
 - Area G PEAC, 2 hours to include PEAC 125; Creative/Practical, 1 hour
- Electives to make a total of 64 hours.

*Two areas minimum

Sample Sequence
A.S. Pre-Cytotechnology

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
BIOL 101-102	Anatomy & Phys	3	3	BIOL 151-152	General Biology	4	4
CHEM 111-112	Survey of Chemistry	3	3	BIOL 225	Basic Microbiology		4
CHEM 113-114	Survey of Chem Lab	1	1	CPTR 120	Computer Based Sys	3	
ENGL 101-102	College Comp	3	3	HLED 173	Health & Life	2	
MATH 120	Precalculus Algebra	3		PEAC 125	Conditioning	1	
SOCI 230	Race Relations		3		Pol Sci/Econ/Psyc	3	3
	Area B, Religion	3	3		Area C-1, History		3
		16	16		Area G-1/2 Creative/Prac		1
					Area G-3, Rec Skills		1
					Area D, Forgn Lang/ Lit/Fine Arts	3	
						16	16

NOTE: C is the lowest acceptable grade.

PRE-DENTAL HYGIENE

Dental hygienists provide preventative dental care and encourage patients to develop good oral hygiene skills. In addition to carrying out clinical responsibilities such as cleaning and scaling teeth, hygienists help patients develop and maintain good oral health by explaining the relationship between diet and oral health. Although most hygienists work with individual patients, some develop and promote community dental health programs. In addition to career opportunities within dental offices, dental hygienists apply their skills and knowledge in other career activities including office management, business administration, dental hygiene education, research and marketing of dental related equipment and materials.

Adviser: John Perumal

(Program meets admission requirements for Loma Linda University.)

(Curriculum can be modified to meet requirements of other schools.)

- Area A ENGL 101-102; 2 years of high school math with a C grade or better and 22 math ACT score*
 - Area B Religion, 6 hours
 - Area C History, 3 hours
 - Area D Foreign Lang/Lit/Fine Arts, 6 hours; SPCH 135 or 136
 - Area E BIOL 101-102, 225; CHEM 111-112, 113-114
 - Area F HLED 173**; SOCI 125, 230; 3 additional hours of PSYC/PLSC/ECON
 - Area G PEAC, 2 hours to include PEAC 125; Creative or Practical Skills, 1 hour
- Electives to make a total of 64 hours

*MATH 103 or 120 is required by Southern College of students with ACT math scores below 22.

**May be substituted by FDNT 125.

Sample Sequence
A.S. Pre-Dental Hygiene

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
BIOL 101-102	Anatomy & Physiology	3	3	BIOL 225	Basic Microbiology	4	
ENGL 101-102	College Composition	3	3	CHEM 111-112	Survey of Chemistry	3	3
MATH 103	Survey of Math*	0-3		CHEM 113-114	Survey of Chem Lab	1	1
SOCI 125	Intro to Sociology	3		HLED 173	Health and Life**		2
SPCH 135	Intro to Public Spkg			PEAC 125	Conditioning	1	
	OR		3	SOCI 230	Race Relations		3
SPCH 136	Interpersonal Comm				Area B, Religion	3	
	Area B, Religion	3			Area D, Forgn Lang/		
	Area G-3, PE Activity		1		Lit/Fine Arts	3	3
	Area C-1, History		3		Area G-1/2, Creative/		
	Electives	1-4	3		Practical	1	
		16	16		Psych, Pol Sci or Econ		3
					Electives		1
						16	16

*MATH 103 or 120 is required by Southern College of students with ACT math scores below 22.

**May be substituted by FDNT 125.

NOTE: C is the lowest acceptable grade.

PRE-NUTRITION AND DIETETICS

Dietitians and nutritionists use their knowledge of the principles of nutrition to help people develop healthy eating habits. Dietitians may be involved in setting up and supervising food service systems for institutions such as hospitals, prisons, and schools; and promote sound eating habits through education and research. Clinical dietitians provide nutritional services for patients in hospitals, nursing homes, clinics, or doctors' offices. Community dietitians counsel individuals and groups on nutritional practices designed to prevent disease and promote good health. Management dietitians are responsible for large scale meal planning and preparation in such places as hospitals, nursing homes, company cafeterias, and schools.

Adviser: Stephen A. Nyirady

(Program meets admission requirements for Loma Linda University)

(Curriculum can be modified to meet requirements of other schools)

Area A ENGL 101-102; 2 years high school math with C grade or better and 22 math ACT score*

Area B Religion, 6 hours

Area C History, 3 hours

Area D SPCH 135; Foreign Lang/Lit/Fine Arts, 3 hours

Area E BIOL 101-102, 225; CHEM 111-112, 113-114

Area F FDNT 125; HLED 173; PSYC 124; SOCI 125, 230

Area G PEAC, 2 hours to include PEAC 125; Creative or Practical Skills, 1 hour

Required professional courses: Food Selection and Preparation, 3 hours; Meal Management, 3 hours. (Both courses are available at LLU in September, prior to Fall quarter.)

Electives to make a total of 64 hours.

*MATH 103 or 120 is required by Southern College of students with ACT math scores below 22.

Sample Sequence
A.S. Pre-Nutrition and Dietetics

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
BIOL 101-102	Anatomy & Physiology	3	3	BIOL 225	Basic Microbiology		4
ENGL 101-102	College Composition	3	3	CHEM 111-112	Survey of Chemistry	3	3
MATH 103/120	Surv Math/Precalc Alg*	3		CHEM 113-114	Survey of Chem Lab	1	1
PEAC 125	Conditioning	1		FDNT 125	Nutrition	3	
SOCI 125	Intro to Sociology		3	HLED 173	Health & Life	2	
PSYC 124	Intro to Psychology	3		SOCI 230	Race Relations		3
SPCH 135	Intro to Public Spkg		3		Area B, Religion	3	
	Area B, Religion	3			Area G-1/2, Creative/ Practical		1
	Area C-1, History		3		Area D, Forgn Lang/ Lit/Fine Arts		3
	Area G-3, Rec Skills		1		Electives	4	1
		16	16			16	16

*MATH 103 or 120 is required by Southern College of students with ACT math scores below 22.

NOTE: C is the lowest acceptable grade.

PRE-OCCUPATIONAL THERAPY

An occupational therapist works with people whose lives have been disrupted by physical injury or illness, developmental problems, the aging process, and social or psychological difficulties. Occupational therapists use selected educational, vocational and rehabilitative activities to help individuals reach the highest functional levels possible, become self reliant and build a balanced lifestyle of work and leisure.

Adviser: Stephen A. Nyirady

(Program meets admission requirements for Loma Linda University)

(Curriculum can be modified to meet requirements of other schools.)

Area A ENGL 101-102; 2 years high school math with C grade or better and 22 math ACT score*; MATH 215

Area B Religion, 6 hours

Area C History, 3 hours

Area D SPCH 135; Foreign Lang/Lit/Fine Arts, 3 hours

Area E BIOL 101-102; CHEM 111, 113; PHYS 137

Area F HLED 173**; PSYC 124, 128; SOCI 125, 230; PSYC or SOCI, 3 hours

Area G PEAC, 2 hours; Creative or Practical Skills, 1 hour, recommended: ART 235, TECH 154

Electives to make a total of 64 hours.

A minimum of 80 hours work experience (volunteer or as an employee) in an occupational therapy department is required.

*MATH 103 or 120 is required by Southern College of students with ACT math scores below 22.

**Waived if high school health course taken.

**Sample Sequence
A.S. Pre-Occupational Therapy**

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
BIOL 101-102	Anatomy & Physiology	3	3	ART 235	Ceramics (elective)		
ENGL 101-102	College Composition	3	3		OR		3
MATH 103/120	Surv Math/Precal Alg*	3		TECH 154	Woodworking (elective)		
PSYC 124	Intro to Psychology	3		CHEM 111	Survey of Chemistry	3	
SOCI 125	Intro to Sociology		3	CHEM 113	Survey of Chem Lab	1	
SPCH 135	Intro to Public Spkg		3	HLED 173	Health & Life	2	
	Area B, Religion	3		MATH 215	Statistics		3
	Area C-1, History		3	PEAC 125	Conditioning		1
	Area G-3, Rec Skills		1	PHYS 137	Intro to Physics		3
	Elective		1	PSYC 128	Developmental Psych		3
		16	16	SOCI 230	Race Relations		3
					Area B, Religion	3	
					Area F-1, Beh Sci	3	
					Area D, Forgn Lang/		
					Lit/Fine Arts		3
					Electives	1	
						16	16

*Math 103 or 114 is required by Southern College of students with ACT math scores below 22.

NOTE: C is the lowest acceptable grade.

PRE-PHYSICAL THERAPY

Physical therapists work to improve the mobility, relieve the pain, and prevent or limit the permanent disability of patients suffering from injuries or disease. Their patients include accident victims or handicapped individuals with such conditions as nerve injuries, amputations, low back pain, arthritis, and heart disease. Some physical therapists treat a wide variety of problems and others specialize in such areas as pediatrics, orthopedics, and sports physical therapy. The working environment of physical therapists varies from specially equipped facilities in hospitals or clinics to schools, private offices, and private homes.

Adviser: David Ekkens

Program below meets Andrews University admission requirements.

- Area A ENGL 101-102; MATH 103 (or 22 Math ACT); MATH 215
- Area B RELB or RELT, 3 hours; RELT 255 or 225
- Area C HIST 174 or 175
- Area D SPCH 135; Fine Arts, 3 hours
- Area E BIOL 101-102, 225; CHEM 151-152; PHYS 211-212, 213-214
- Area F PSYC 124, 128; GEOG, PLSC, or ECON, 3 hours
- Area G PEAC, 2 hours to include PEAC 125; CPTR 120
- Electives to make a minimum total of 64 hours

*HIST 154 required if not taken in high school.

BIOL 151-152 may be substituted for BIOL 101-102. Recommended electives: FDNT 125, ECON 213, ACCT 103.

Andrews University Admission and Degree Requirements: Andrews University requires 3.00 GPA in science prerequisites and total credits. C is the lowest acceptable grade for science and cognate courses. Also required is the Nelson-Denny Reading test and 80 hours of observation or work experience with a Registered Physical Therapist. This 80 hours must include at least 16 hours in each of two physical therapy settings plus 20 hours in a general acute care hospital. The settings to choose from are: home health agency, pediatric therapy, outpatient clinic, rehabilitation center, nursing home, and specialized clinic.

Program below meets Loma Linda University admission requirements.

Area A	ENGL 101-102; MATH 120, 215
Area B	Religion, 6 hours
Area C	HIST 174, 175, 154, or 155
Area D	Fine Arts*, 3 hours; SPCH 135
Area E	BIOL 101-102 or 151-152, 225; CHEM 151-152; PHYS 211-212, 213-214 (see note at end of section)
Area F	HLED 173; PSYC 124, 128; SOCI 230
Area G	PEAC, 2 hours to include PEAC 125; CPTR 120
Electives to make a minimum total of 66 hours	

Loma Linda University Admission and Degree Requirements: Loma Linda University requires a 3.00 GPA in science prerequisites and for total credits. Also required is a minimum of 80 hours work experience (volunteer or employee) in a physical therapy department, 20 of which are in a general, acute-care hospital.

*MUHL 115 or ART 218 may be selected.

Requirements for entrance to the junior year of a Physical Therapy course will depend on the college selected. Requirements for Andrews University and Loma Linda University are outlined below. Students who complete one of these programs will be awarded an Associate of Science degree by Southern College. Students planning to attend other colleges should contact them to obtain their requirements.

ANDREWS UNIVERSITY REQUIREMENTS

YEAR 1		Semester		YEAR 2		Semester	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
BIOL 101-102	Anatomy & Physiology*	3	3	BIOL 225	Basic Microbiology	4	
ENGL 101-102	College Composition	3	3	CHEM 151-152	General Chemistry	4	4
HIST 175	World Civ***		3	CPTR 120	Computer Based Syst	3	
MATH 103	Survey of Math**	3		MATH 215	Statistics		3
PEAC 125	Conditioning	1		RELT 255	Christian Beliefs	3	
PSYC 124	Intro to Psychology	3			or		
PSYC 128	Developmental Psych		3	RELT 225	Last Day Events		
SPCH 135	Intro to Public Spkg		3		Area D-3, Music or		
	Area B, Religion	3			Art Appreciation****		3
	Electives		<u>1</u>		Area G-3, Rec Skills	1	
		<u>16</u>	<u>16</u>		Pol Sci, Geog, or Econ		3
					Electives	<u>1</u>	<u>3</u>
						<u>16</u>	<u>16</u>

Note: A physics sequence with laboratory is required for entrance into the program. This is offered at Andrews University immediately preceding their first quarter. PHYS 211-212 and 213-214, 8 semester hours at SC, will fulfill this requirement.

*BIOL 151-152, General Biology, may be substituted.

**Not required if the MATH ACT score is 22 or higher.

***American History required only if not taken in high school.

****A two-semester sequence in a music organization may be substituted.

LOMA LINDA UNIVERSITY REQUIREMENTS

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
BIOL 101-102	Anatomy & Physiology*	3	3	BIOL 225	Basic Microbiology	4	
ENGL 101-102	College Composition	3	3	CHEM 151-152	General Chemistry	4	4
MATH 120	Precalculus Algebra	3		CPTR 120	Computer Based Syst		3
PEAC 125	Conditioning	1		HLED 173	Health & Life	2	
PSYC 124	Introduction to Psych	3		MATH 215	Statistics		3
PSYC 128	Developmental Psych		3		Area B, Religion		3
SOCI 230	Race Relations		3		Area C, History	3	
SPCH 135	Intro to Public Spkg		3		Area D, Fine Arts**		3
	Area B, Religion	3			Electives	3	
	Area G-3, Rec Skills		1			16	16
		16	16				

*BIOL 151-152, General Biology, may be substituted.

**MUHL 115, ART 218, or HMNT 205.

NOTE: A total of 66 semester hours is required for admission. Other entrance requirements are the Allied Health Professions Admissions Test and a minimum of 80 hours work experience (volunteer or as an employee) in a physical therapy department. C is the lowest acceptable grade for a course.

NOTE: A physics sequence with laboratory is required for entrance into the program. This is offered at La Sierra University immediately preceding first quarter. PHYS 211-212 and 213-214, 8 semester hours at SC, will fulfill this requirement. PHYS 111, 3 semester hours at SC, fulfills the first half of this requirement.

PRE-PHYSICIAN ASSISTANT

Physician assistants are trained to perform many of the essential tasks involved in patient care. They take medical histories, perform physical evaluations, order laboratory tests, make preliminary diagnoses, prescribe appropriate treatments, and recommend medications and drug therapies. They also treat minor problems such as lacerations, abrasions, and burns. Physician assistants work in a variety of practice settings and specialty areas. The most important practice setting is in a physician's office. They also work at hospitals and clinics. Specialties using PA's are family practice, internal medicine, general and thoracic surgery, emergency medicine, pediatrics, and various medical sub-specialties.

Adviser: Stephen A. Nyirady

(Program meets admission requirements for Trevecca Nazarene College, Nashville)

(Curriculum can be modified to meet requirements of other schools)

Area A ENGL 101-102; MATH 103 or 120

Area B RELB 125, RELT 255

Area C HIST 174, 175

Area D SPCH 135, ENGL 216

Area E BIOL 101-102, 225; CHEM 151-152

Area F PSYC 124, 128

Area G PEAC 125; Creative or Practical Skills, 1 hour

Electives to make a total of 64 hours.

NOTE: A class in Medical Terminology is highly recommended.

Work or volunteer service in a health care setting and a minimum cumulative GPA of 3.0 are required.

Sample Sequence
A.S. Pre-Physician Assistant

YEAR 1		Semester		YEAR 2		Semester	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
BIOL 101-102	Anatomy & Physiology	3	3	BIOL 225	Basic Microbiology	4	
CHEM 151-152	General Chemistry	4	4	ENGL 216	Approaches to Lit	3	
ENGL 101-102	College Composition	3	3	HIST 174/175	World Civ	3	3
PEAC 125	Conditioning		1	MATH 103/120	Surv Math/Coll Alg		3
PSYC 124	Intro to Psychology	3		PSYC 128	Developmental Psych	3	
RELB 125	Teachings of Jesus		3	RELT 255	Christian Beliefs		3
	Area G-1/2, Creative/ Practical Skills		1	SPCH 135	Intro to Public Spkg		3
	Elective	3	1		Electives	3	4
		16	16			16	16

PRE-SPEECH LANGUAGE PATHOLOGY & AUDIOLOGY

Speech language pathologists identify, assess, and treat persons with speech and language disorders while audiologists assess and treat hearing impaired individuals. Because both occupations are concerned with communication, individuals competent in one area must be familiar with the other. The duties of speech language pathologists and audiologists vary. Most, however, provide direct clinical services to individuals with communication disorders. In speech, language, and hearing clinics they may independently develop and implement a treatment program. In private medical centers and other facilities, they may be part of a team that develops and executes a treatment plan. In schools they may help administrators develop individual or group programs, counsel parents on prevention of hearing disorders, and assist teachers with classroom activities.

Adviser: Stephen A. Nyirady

(Program meets admission requirements for Loma Linda University)
(Curriculum can be modified to meet requirements of other schools)

- Area A ENGL 101-102; 2 years high school math with C grade or better and 22 math ACT score*
- Area B Religion, 6 hours
- Area C History, 3 hours
- Area D SPCH 135; Foreign Lang/Lit/Fine Arts, 3 hours
- Area E BIOL 101-102; PHYS 137
- Area F HLED 173; PSYC 124, 128; SOCI 230 or 233
- Area G PEAC, 2 hours to include PEAC 125; Creative or Practical Skills, 1 hour
- Electives to make a total of 64 hours.

*MATH 103 or 120 is required by Southern College of students with ACT math scores below 22.

Sample Sequence
A.S. Pre-Speech Language Pathology & Audiology

YEAR 1		Semester		YEAR 2		Semester	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
BIOL 101-102	Anatomy & Physiology	3	3	HLED 173	Health & Life	2	
ENGL 101-102	College Composition	3	3	PEAC 125	Conditioning		1
MATH 103/120	Surv Math/Precol Alg*		3	PHYS 137	Intro to Physics		3
PSYC 124	Intro to Psychology	3		PSYC 128	Developmental Psych	3	
SPCH 135	Intro to Public Spkg		3	SOCI 230	Race Relations		3
	Area B, Religion	3			Area B, Religion	3	
	Area C-1, History		3		Area G-1/2, Creative Practical		1
	Area G-3, Rec Skills		1		Area D, Forgn Lang/ Lit/Fine Arts	3	
	Electives	1	3		Electives	5	8
		16	16			16	16

*Math 103 or 120 is required by SC of students with ACT math scores below 22; if waived, 3 additional hours of Math/Science required. NOTE: C is the lowest acceptable grade.

PRE-SURGEON'S ASSISTANT

The surgeon's assistant is qualified to assist the surgeon in his patient care activities. Functioning under the direction of the surgeon, the surgeon's assistant is capable of obtaining accurate medical history and physical examination data, carrying out preoperative procedures to prepare the patient for surgery, assisting the surgeon during operations, participating in the care and evaluation of the patient in the postoperative period, assisting in the management of the traumatized patient, and caring for minor injuries. Surgeon's assistants may be involved with patients in any medical setting for which the surgeon is responsible including the operating room, recovery room, intensive care unit, and the surgeon's office.

Adviser: Stephen A. Nyirady

(Program meets admission requirements for University of Alabama at Birmingham)
(Curriculum can be modified to meet requirements of other schools)

- Area A ENGL 101-102; MATH 120
- Area B RELB, RELT, 6 hours
- Area C HIST or PLSC, 6 hours
- Area D SPCH 135; 6 hours of literature; 3 hours of Lang/Lit/Fine Arts
- Area E BIOL 101-102, 151-152, 330; CHEM 151-152
- Area F PSYC, SOCI, 6 hours
- Area G PEAC 125; Creative or Practical Skills, 2 hours

Electives to make a total of 64 hours.

Recommended: Statistics, Cell Biology, Genetics, Histology

Work or volunteer service in a health care setting is highly recommended.

Sample Sequence A.S. Pre-Surgeon's Assistant

<u>YEAR 1</u>		<u>Semester</u>		<u>YEAR 2</u>		<u>Semester</u>	
		<u>1st</u>	<u>2nd</u>			<u>1st</u>	<u>2nd</u>
BIOL 101-102	Anatomy & Physiology	3	3	BIOL 330	General Microbiology		4
BIOL 151-152	General Biology	4	4	CHEM 151-152	General Chemistry	4	4
ENGL 101-102	College Composition	3	3	MATH 120	Precalculus Algebra	3	
	Area C, History/Pol Sci	3	3	PEAC 125	Conditioning	1	
	Area F-1, Behav Sci	3		SPCH 135	Intro to Public Spkg		3
	Area D, Forgn Lang/				Area B, Religion	3	3
	Fine Arts		3		Area D, Literature	3	3
	Area G-1/2, Creative/				Area F-1, Behav Sci	3	
	Practical					17	17
		<u>1</u>	<u>1</u>				
		17	17				

ART

Chair: Robert Garren
Faculty: Adán Saldaña

Basic to the philosophy of the Department of Art is the provision for the quality of environment most conducive to spiritual, aesthetic, and technical growth. The instructors desire to help all students become aware of their options in the field of art and to prepare them systematically to meet the needs of their respective choices, whether they are oriented commercially or aesthetically.

ASSESSMENT

Students majoring in Art or Art-Computer Graphic Design will keep a portfolio of their work from their freshman year onward. The art faculty will evaluate the portfolio at the end of the sophomore and senior years. The evaluation, which is designed to aid the department in student advisement and in determining the effectiveness of its teaching and course offerings, will not affect graduation.

Major—B.A. Art (31 Hours)

<u>Required Courses</u>	<u>Hours</u>	<u>Select 2 of the Following:</u>	<u>Hours</u>
ART 104 Drawing I	3	ART 318 Art Appreciation	3
ART 105 Drawing II	3	ART 344 Art History	3
ART 125 Graphic Design Principles	3	ART 345 Contemporary Art	3
ART 499 Senior Project	1		
Art Electives	15		

Sample Freshman Year Sequence B.A. Art

<u>1st Semester</u>	<u>Hours</u>	<u>2nd Semester</u>	<u>Hours</u>
ART 104 Drawing I	3	ART 105 Drawing II	3
ENGL 101 College Composition	3	ART 125 Graphic Design Principles	3
Art Electives	3	ENGL 102 College Composition	3
Inter Foreign Language	3	PEAC 125 Conditioning	1
Area B, Religion	3	Inter Foreign Language	3
	15	Area C-1, History	3
			16

Major—B.S. Art-Computer Graphic Design (48 Hours)

<u>Required Courses</u>	<u>Hours</u>	<u>Required Courses, cont.</u>	<u>Hours</u>
ART 104 Drawing I	3	ART 400 Intro to Multi-media Design	3
ART 119-120 Publication Design	6	ART 318 Art appreciation	
ART 125-126 Graphic Design Principles	6	OR	
ART 219-220 Intro to Computer Graphics	6	ART 344 Art History	3
ART 319-320 Adv Computer Graphics	6	OR	
ART 326-327 Illust with Computers	6	ART 345 Contemporary Art	
ART 330-331 Illustration Methods	6	ART Electives	6

<u>Required Cognates</u>	<u>Hours</u>	<u>Required Cognates, cont.</u>	<u>Hours</u>
CPTE 252 Computer-Aided Design	3	JOUR 315 Photojournalism	2-3
CPTE 245/345 Computer-Aided Publishing	3	JOUR 227/327 Video Production	3
CPTE 249/349 Computer-Aided Publishing	3	PREL 344 Fundamentals of Advertising	2
JOUR 225 Intro to Photography	3	PREL 354 Advertising Copywriting	2

Sample Freshman Year Sequence
B.A. Art-Computer Graphic Design

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
ART 104	Drawing I	3	ART 126	Graphic Design Prin II	3
ART 125	Graphic Design Prin I	3	ART 220	Intro to Computer Graphics II	3
ART 219	Intro to Computer Graphics	3	ENGL 102	College Composition	3
ENGL 101	College Composition	3	PEAC 125	Conditioning	1
	Area B, Religion	3		Area C-1, History	3
		15		Area E, Natural Sci	3
					16

Minor—Art (18 Hours)

<u>Required Courses</u>		<u>Hours</u>
ART 104-105	Drawing I, II	6
ART 125	Graphic Design Principles	3
ART 344	History of Art	3
	Upper Division Electives	6

Minor—Art-Computer Graphic Design (18 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Select 1 of the Following:</u>		<u>Hours</u>
ART 104	Drawing I	3	ART 218/318	Art Appreciation	3
	Comp Graphic Design Electives 12		ART 344	Art History	3
			ART 345	Contemporary Art	3

STUDIO ART

ART 104-105. Drawing (G-1) 3,3 hours

An introductory course in drawing, composition, and design. Emphasis on the basic art elements and their functions in composition using various media. (Fall, Spring)

ART 119-120. Publication Design (G-1) 3,3 hours

Graphic designers, desktop publishers and production artists will benefit from this comprehensive class. Issues to be addressed include developing master pages and style sheets; setting type, text and frame attributes; importing images; working with spot color; and using typesetting techniques such as hyphenation, kerning, and tracking. Software: QuarkXpress.

ART 125-126. Graphic Design Principles 3,3 hours

Students learn techniques and design theory related to graphic design with hands-on practical applications.

ART 219-220. Introduction to Computer Graphics 3,3 hours

An introductory, creative imaging course for artists, illustrators, and designers. Combining a survey of imaging technology with creative investigation and artistic expression, this course will introduce students to the technical solutions that will expand their creative vision. Software: Factual Design Painter.

ART 221-222. Painting 3,3 hours

Prerequisite: ART 104-105 or permission of instructor.

A course designed to give the student experience in using painting materials applied to compositional organizations. May be repeated for credit. (Fall, Spring)

ART 230. Introduction to Art Experiences 2 hours

A course designed to give students hands-on experience with a variety of art media and materials. Study will be given to how artists use media in their expression of design and composition. (Spring)

ART 235. Ceramics (G-1)**3 hours**

Fundamentals of the preparation and use of clay. Methods of fabrication from hand building to wheel-thrown wares, chemistry and application of glazes, and stacking and firing of kilns. May be repeated for credit. A \$20 fee is applied toward necessary supplies. (Fall)

ART 300. Printmaking**3 hours**

Prerequisite: ART 104 or permission of instructor.

A course designed to give the art major experience in printmaking media. Relief, intaglio, and silk-screen will be covered. Course will be taught in odd years.

ART 310. Painting III**3 hours**

Prerequisite: ART 221 or permission of instructor.

Advanced problems in painting and the usage of various media.

ART 319-320. Advanced Computer Graphics**3,3 hours**

This course is designed for the student, designer, photographer, or educator who is interested in both the creative and the technology within digital imaging. This course will address color correction, scanning resolution, image restoration, hand-coloring photographs, collage and montage techniques, masking and effective use of filters and special effects. Software: Adobe Photoshop.

ART 326-327. Illustration With Computers**3,3 hours**

This course is an intensive study on how to create two-dimensional illustrations and typographic arrangements. The program uses paths made of curves and straight line segments to define areas which may be filled with color or patterns, used for masking or for framing type and objects. Students will manipulate typefaces, trap and knock out color, generate clean printable files, and move files to page layout or image-editing applications. Software: Adobe Illustrator.

ART 325. Sculpture**3 hours**

Prerequisite: ART 104 or permission of instructor.

Introduction to the problems of form in sculpture and three-dimensional design using various media such as clay, plaster, wood, and metal casting. Course will be taught in even years.

ART 330-331. Illustration Methods**3,3, hours**

Students will learn illustration techniques using pencils, ink, markers, colored pencils, air brush, and photo retouching.

ART 400. Introduction to Multi-media Design**3 hours**

This course covers the steps and issues in creating a formalized multimedia design and publishing onto CD. Areas covered are story boarding for graphical look; interactive story-boards, flowcharting brainstorming, dealing with software and hardware constraints, and preparation of a design document. Emphasis is on shaping an idea into a well-thought-out design that works as a multimedia experience.

ART 410. Painting IV**3 hours**

Prerequisite: ART 221 or permission of instructor.

Advanced problems in painting and the usage of various media.

ART 497. Graphic Design Practicum**1-3 hours**

Students will work in a graphics-related business for a minimum of 40 clock hours per credit hour with employer evaluation. Students must maintain a log sheet and samples of work.

ART 295/495. Directed Study (W)**1-3 hours**

For students electing to take ART 295, permission of the teacher must be obtained. ART 495 is for majors and minors only.

The course is designed for students who wish directed study or for a group of students who wish a special course not taught under the regular class offering. Students taking the class as directed study may choose from art history, ceramics, design, drawing, painting, printmaking, and sculpture. (Students must have had maximum classes offered in area.) This course also includes credit offered by the Art Department on directed study tours. May be repeated for credit up to four times. Writing emphasis for ART 495 only.

ART 499. Senior Project**1 hour**

Major projects in area of interest for seniors and preparation of permanent portfolio of college art work.

ART HISTORY**ART 218/318. Art Appreciation (D-3) (W)****3 hours**

Lecture and travel seminar. One class is offered in the fall semester, with two hours per week lecture, and the week of Thanksgiving spent in and New York City visiting major art museums. When offered in the first summer session, there will be one week of two-hour lectures and two weeks of travel and museum visits. There is an additional charge for travel. Students will be required to write a summary paper. Students taking the class for upper division credit will be required to write a research paper.

ART 344. History of Art (D-3) (W)**3 hours**

A study of the arts of western civilization from antiquity to the mid-1800's with an emphasis on pivotal figures in art history. (Fall)

ART 345. Contemporary Art (D-3) (W)**3 hours**

Nineteenth- and twentieth-century developments in European and American arts. (Spring)

(D-3) (G-1) (W) See pages 25-29 for explanation of General Education requirements.

BEHAVIORAL SCIENCE

Chair: Ed Lamb

Faculty: Terrie Ruff, Larry Williams

Adjunct Faculty: Sherri Craig, Ellen Gilbert

The Behavioral Science faculty fully support the educational philosophy and objectives of Southern College. More specifically, this faculty embraces the following beliefs:

- (1) God is not only the Creator and Sustainer of all life, but also the ultimate Source of all knowledge.
- (2) Man is created in the image of God, and possesses harmonious physical, mental, spiritual, and social attributes.
- (3) A loving God seeks to restore His image in humanity, thus preparing them for personal fellowship with Himself.

We understand a redemptive education must focus on the growth of the whole person. The Behavioral Science faculty commits itself, therefore, to achieving the following objectives:

Spiritual

Behavioral Science majors will acquire an understanding of the basic beliefs and values of Christianity as presented by the Seventh-day Adventist Church. We, as their teachers, will provide class devotionals, Christian-service applications, and the encouragement for them to commit themselves to such ideals.

Intellectual

Those studying Behavioral Science at this college will perceive themselves as Christian scholars beginning a lifelong pursuit of knowledge. We have designed course-related activities and investigations to aid them in achieving intellectual and career goals, and in acquiring the necessary tools for future learning. The Behavioral Science curriculum is structured so as to encourage critical thinking, perceptive discussion, intellectual curiosity, and cultural awareness.

Social

Behavioral Science students are expected to develop positive interpersonal skills, communication techniques, and decision-making approaches. The teachers in this program strongly emphasize the attitudes of acceptance, caring, patience, and service.

Physical

Students in Behavioral Science are encouraged to develop a holistic view of mankind in appreciation for the interactive nature of our physical, mental, social, and spiritual being. They are expected to establish balanced programs of exercise, rest, diet, study, work, and recreation. The faculty promotes such positive values and practices through example and instruction.

PROGRAMS IN BEHAVIORAL SCIENCE

The Behavioral Science Department offers a degree in Family Studies and in Social Work. Minors are also available in Behavioral Science, Family Studies, and Sociology.

The curricula for both the Behavioral Science and the BSW degrees include computer content and hands-on experience intended to enable majors to develop elementary skills including word processing, Internet, CD ROMs, video-interactive, and statistical analysis. Majors are encouraged to have their own personal computer (PCs) if possible.

Family Studies: The Behavioral Science major with a Family Studies emphasis is for those students wishing to prepare for graduate study in community and/or family counseling, law, personnel work, sociology of the family, or family life education.

Social Work: The Bachelor of Science in social Work (BSW) is offered for those students seeking preparation for entry-level generalist baccalaureate practice positions. The BSW is the foundation degree leading to possible careers in mental health, child welfare, health care, public welfare, schools, family service, developmental disabilities, services to the aged, industry, business and labor, and justice. The BSW is also the preferred preparation for the terminal graduate practice degree, the Master of Social Work (MSW). Job opportunities in the social work profession are projected to grow at a rate considerably above the average during the coming decade. Official application to the BSW program is expected during the second semester of the sophomore year, although the social work major may be declared at any time during the college experience.

ASSESSMENT

To help the graduates in Behavioral Science evaluate their academic progress and to aid the department in evaluating teaching effectiveness, each senior is required to:

1. Take an oral exam during the fall semester of the senior year that will be based on assigned readings and coursework material.
2. Take a standardized achievement test (PACAT) in the spring semester of the senior year.
3. Present a personal portfolio of papers and case material to the departmental faculty.

Information gained from the above assessments is used to evaluate departmental programs, but it will not affect graduation eligibility.

BEHAVIORAL SCIENCE DEPARTMENT STUDY TOURS

The Behavioral Science Department sponsors a study tour to New York City yearly during Thanksgiving vacation and a study tour to Europe every other year. The objectives of these tours are to facilitate a better understanding of peoples and cultures and to enable the participants to work with people more effectively. Academic credit is given for these tours and each requires classroom time (see SOCI, SOCW 296/496).

Major—B.S. Behavioral Science (Family Studies Emphasis) (45 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
PSYC 124	Intro to Psychology	3	SOCI 349	Aging and Society	3
PSYC 128	Developmental Psych	3	SOCI 365	Family Relations	3
PSYC 315	Abnormal Psychology	3	SOCI 424	Contemp Social Problems	3
SOCI 125	Intro to Sociology	3	SOCI 495	Directed Study	1-3
SOCI 201	Parenting	3	SOCW 211	Intro to Social Work	3
SOCI 223	Marriage and the Family	2	SOCW 212	Social Welfare as an Instit	3
SOCI 233	Human Sexuality	3	SOCW 497	Research Methods (W)	3

<u>Required Cognates</u>		<u>Hours</u>	<u>Required Cognates, cont.</u>		<u>Hours</u>
CPTR 105	Intro to Word Processing	1	SPCH 135	Intro to Public Speaking	
CPTR 106	Intro to Spreadsheets	1		OR	3
CPTR 107	Intro to Data Base	1	SPCH 136	Interpersonal Com	
MATH 215	Statistics	3		Area E-1, Biology	3

Sample Freshman Year Sequence

B.S. Behavioral Science (Family Studies Emphasis)

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
ENGL 101	College Composition	3	ENGL 102	College Composition	3
SOCI 125	Intro to Sociology	3	PSYC 124	Intro to Psychology	3
SOCW 211	Intro to Social Work	3	PSYC 128	Developmental Psych	3
	Area B, Religion	3		Area A-2, Math	0-3
	Area G, Act Skills	3		Area E-1, Biology	3
		15		Area G, Act Skills	1
				Minor or Electives	3-0
					16

A student contemplating graduate study should take as many courses as possible in the area of his/her emphasis.

Major—B.S.W., Social Work (45 hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
SOCW 211	Intro to Social Work	3	SOCW 434	Social Welfare Issues	3
SOCW 212	Social Welfare as Inst	3	SOCW 435	Social Work Practicum I	4
SOCW 213	Interviewing Skills	1	SOCW 436	Social Work Practicum II	4
SOCW 313	Human Behavior	4	SOCW 497	Research Methods (W)	3
SOCW 314	Social Work Meth I (W)	3	PSYC 124	Intro to Psychology	3
SOCW 315	Social Work Meth II (W)	3	PSYC 128	Developmental Psych	3
SOCW 424	Contemp Social Problems	3	SOCI 125	Intro to Sociology	3

<u>Required Cognates</u>		<u>Hours</u>	<u>Required Cognates, cont.</u>		<u>Hours</u>
CPTR 105	Intro to Word Processing	1	RELT 373	Christian Ethics	3
CPTR 106	Intro to Spreadsheets	1	SPCH 135	Intro to Public Speaking	
CPTR 107	Intro to Data Base	1		OR	3
MATH 215	Statistics	3	SPCH 136	Interpersonal Communication	
PLSC 254	American Natl and State Gov			Any human biology course	3
	OR	3			
ECON 213	Survey of Economics				

Sample Freshman Year Sequence
B.S.W., Social Work

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
ENGL 101	College Composition	3	ENGL 102	College Composition	3
PSYC 128	Developmental Psych	3	PSYC 124	Intro to Psychology	3
SOCI 125	Intro to Sociology	3		Area A-2, Math	0-3
SOCW 211	Intro to Social Work	3		Area G, Act Skills	2
	Area B, Religion	3		Electives	8-5
		15			16

Minor—Behavioral Science (18 hours)

<u>Required Courses</u>	<u>Hours</u>
PSYC 124 Intro to Psychology	3
SOCI 125 Intro to Sociology	3
SOCW 211 Intro to Social Work	3
*Electives	9

*An additional nine hours selected from any Behavioral Science areas with a minimum of six hours of upper division Behavioral Science classes.

Minor—Family Studies (19 hours)

<u>Required Courses</u>	<u>Hours</u>	<u>Select 8 hours from following:</u>	<u>Hours</u>
SOCI 201 Parenting	3	PSYC 128 Developmental Psych	3
SOCI 223 Marriage and Family	2	NRSG 265 Women's Issues	3
SOCI 233 Human Sexuality	3	SOCI 349 Aging and Society	3
SOCI 365 Family Relations	3	PSYC 367 Adolescent Psychology	3
		PSYC 479 Family Counseling	3
		SOCI 465 Topics	2

Minor—Sociology Minor (18 Hours)

<u>Required Courses</u>	<u>Hours</u>
SOCI 125 Intro to Sociology	3
SOCI 365 Family Relations	3
SOCI 424 Contemp Social Problems	3
Behavioral Science Electives	9

SOCIOLOGY

SOCI 125. Introduction to Sociology (F-1) 3 hours

An objective approach to the analysis and understanding of the social world. Consideration is given to the dynamic nature of American society and social institutions. Emphasis is placed on the study of social groups including the family, its history and current place in society. (Fall, Spring, Summer)

SOCI 201. Parenting (F-2) 3 hours

A study of the family system in preparation for parenthood and the dynamics of parent-child interaction. Attention is given to family planning, the childbirth experience, child development, techniques for developing close relationships and communication between parent and child, understanding and relating to children's individuality, common child rearing problems, and methods of modifying behavior. (Fall, Spring)

SOCI 223. Marriage and the Family (F-2) 2 hours

A course in the ethics of human relationships, including the place of the family in society and a Christ-centered approach to marital and familial conflicts. (Fall, Spring)

SOCI 224. Social Psychology (F-1) 3 hours

See PSYC 224 for course description.

SOCI 230. Race Relations 3 hours

A study of interactional patterns between various human groups. Consideration is given to the theoretical bases of race relations and to class activities which promote awareness and understanding.

SOCI 233. Human Sexuality (F-1 or F-2) 3 hours

A study of human sexual behavior, relationships, and values as reflected in the Christian cultural setting.

SOCI 349. Aging and Society (F-1) (W) 3 hours

The course emphasizes the reciprocal impact of societal attitudes on the process of aging and the increasing influence of "mature citizens" in contemporary society. Historical, demographic, and future trends are explored. A balance between the theoretical and the applied is sought. (Fall, Spring, Summer)

SOCI 356. Natives and Strangers (F-1) (W) 3 hours

See HIST 356 for course description.

SOCI 365. Family Relations (F-2) 3 hours

A sociological analysis of family structures and functions. Attention will be given to courtship, family organization and interaction, family disorganization and reorganization, and the post-parental family. Emphasis will be given to findings of recent family studies. (Spring)

SOCI 374. Criminology (F-1) 3 hours

This course emphasizes the scientific study of crime as a social phenomenon, of criminals, and of penal treatment. The relationship of law and crime to other trends in the social order. Research in prevention and treatment of crime. (Fall, odd years)

SOCI 424. Contemporary Social Problems (F-1) 3 hours

Attention is given to the major forces shaping cultural and subcultural changes today. Changes are particularly viewed as to their effectiveness in bringing about group and mass adjustment. (Spring)

SOCI 265/465. Topics in Sociology 1-3 hours

Study of special topics pertinent to the field of sociology. Content will vary among various topics, based on the interests or needs of students and the department. This course may be repeated for credit.

SOCI 295/495. Directed Study 1-3 hours

Prerequisite: SOCI 125 or permission of the instructor.

Study of special topics pertinent to the area of sociology and family studies. Open to qualified students who want to follow a program in independent study. This course can be repeated for credit for a total of not more than three hours credit.

SOCI 296/496. Study Tour (F-1) 1-3 hours

A tour is scheduled annually for the purpose of studying a range of behavioral science topics. The fall trip to New York City occurs during Thanksgiving vacation and focuses on ethnicity, social problems, urban change, and social agencies (1 hour). A European tour to study social policy and selected cultures is taken every other summer or as needed. An additional fee is required to cover travel expenses.

SOCIAL WORK

SOCW 101. Orientation to College (G-2) 3 hours

A course designed for all freshmen, focusing on the theory and practice of attitudes and skills necessary to adjust to college life. Class assignments include but are not limited to the study of career choices, academic skills, time relationships with peers and professors, management, and sources of assistance to resolve problems common to a Christian campus. All freshmen are encouraged to enroll.

SOCW 211. Introduction to Social Work (F-1) 3 hours

An introduction to the profession of social work, its historical roots, its values, and its fields of practice.

SOCW 212. Social Welfare as an Institution (F-1) 3 hours

Social welfare systems are viewed from both historical and philosophical perspectives. The role of the Seventh-day Adventist Church in meeting human need is also examined.

SOCW 213. Interviewing Skills 1 hour

Focuses on the development of interviewing and communication skills. Course is experientially based.

SOCW 230. Race Relations. 3 hours

See SOCI 233 for course description.

SOCW 233. Human Sexuality (F-1 or F-2) 3 hours

See SOCI 233 for course description.

SOCW 313. Human Behavior and the Social Environment 4 hours

Prerequisites: BIOL 101; SOCI 125; PSYC 124, 128; SOCW 212 or permission of instructor.

A study of the interaction between human behavior and the social environment. Relevant concepts from the behavioral sciences will be reviewed to provide students with a holistic view of human behavior. Includes such topics as systems theory, roles, reference groups, and social stratification. To be taken prior to or concurrently with SOCW 314.

SOCW 314. Social Work Methods I (W) 3 hours

Prerequisite: SOCW 212 or permission of instructor.

Provides students with theoretical framework for generalist social work practice. Topics include the establishment of relationship, assessment, contracts, intervention, utilization of resources, social work values and ethics. Work with individuals and families is emphasized in the first semester of a two-semester sequence.

SOCW 315. Social Work Methods II (W) 3 hours

Prerequisite: SOCW 314 or permission of instructor.

A continuation of SOCW 314. The primary focus is on working with small groups and the community. Public policy development and implementation are also studied.

SOCW 349. Aging and Society (W) 3 hours

See SOCI 349 for course description.

SOCW 374. Criminology 3 hours

See SOCI 374 for course description.

SOCW 375. Introduction to Family Intervention (F-1) 3 hours

An introduction to the various theoretical orientations of family intervention. The family is viewed as a unit, with focus on programs and crisis techniques designed to maintain and re-establish family equilibrium.

SOCW 424. Contemporary Social Problems (F-1) 3 hours

See SOCI 424 for course description.

SOCW 434. Social Welfare Issues and Policies 3 hours

A study of contemporary issues and policies that influence the delivery of social services.

SOCW 435. Social Work Practicum I 4 hours

Prerequisite: SOCW 314.

This course provides opportunity for students to apply practice theory to develop skills for generalists social work practice. Through participation in the social service delivery system, the student becomes familiar with agency structures, functions, and programs. A minimum of 200 hours will be spent working in an agency setting for each four hours of course work. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 236.

SOCW 436. Social Work Practicum II 4 hours

This course builds on the experiences of the first semester practicum and progresses to more difficult and varied tasks. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 236.

SOCW 265/465. Topics in Social Work (F-1) 1-3 hours

Study of special topics pertinent to the field of social work. Content will vary among various topics based on the interests or needs of students and the department. This course may be repeated for credit.

SOCW 295/495. Directed Study 1-3 hours

Prerequisite: SOCW 212 or permission of the instructor.

A study of special topics pertinent to the field of social work. Content will vary among such topics as child welfare, income maintenance, values and ethics of social work practice, etc. The selected topic is pursued for the entire semester. This course can be repeated for credit for a total of not more than three hours credit.

SOCW 296/496. Study Tour (F-1)

1-3 hours

A tour is scheduled annually for the purpose of studying a range of behavioral science topics. The fall trip to New York City occurs during Thanksgiving vacation and focuses on ethnicity, social problems, urban change, and social agencies (1 hour). A European tour to study social policy and selected culture is taken every other summer or as needed. An additional fee is required to cover travel expenses. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 236.

SOCW 497. Research Methods (W)

3 hours

Prerequisite: MATH 215.

An introduction to common research design and methodology. Descriptive and relational designs are examined. A semester research proposal and completed project is expected of each student. (Fall)

(F-1) (F-2) (G-2) (W) See pages 25-29 for explanation of General Education requirements.

BIOLOGY

Chair: Stephen A. Nyirady

Faculty: Joyce Azevedo, David Ekkens, William Hayes, John Perumal

Adjunct Faculty: Edgar Grundset

Summer Faculty: Laura Nyirady

Adjunct Research Faculty: Ron Carter, John Henson

The study of Biology constitutes one of the most exciting and important fields of scientific investigation, since it provides a better understanding of ourselves and the living things around us. Even the casual observer of Biology who pauses long enough to take a course may derive a lifetime of pleasure and fulfillment from a hobby such as bird watching, shell collecting, or wild flower photography.

More importantly, a major in Biology is an excellent starting point for numerous careers which are both rewarding and challenging. With a B.S. degree in Biology, one may pursue graduate study leading to research in the basic sciences (anatomy, physiology, ecology, microbiology, cytology, etc.), teaching at the college or graduate level, or employment in industry or government. The B.A. degree is the degree of choice in preparation for high-school teaching, medicine, dentistry, optometry, careers in wildlife, forestry or zoo management, health education, public health, biostatistics, epidemiology, and environmental health, to name a few.

The Biology Department makes available a number of experiences, both curricular and extracurricular, to enrich its students' academic programs. Being within relatively easy access to a number of major biome types, it offers courses which include field experiences in such places as the Bahamas, Smoky Mountains, and the Okefenokee Swamp. The newly constructed Tennessee Aquarium provides additional learning resources. The department is also affiliated with two biological field stations (see page 21).

Extracurricular opportunities include membership in the *Beta Beta Beta* national biological honor society, a yearly lecture series on natural history and research topics (see page 20), as well as a premedical preceptorship program (see page 223).

ASSESSMENT

In order to help evaluate its teaching effectiveness and the academic achievements of its graduates, all seniors are required to take the ETS Major Field Achievement Test in Biology during their final semester. The results of these exams are used by the department staff to evaluate class offerings as well as program requirements.

DEGREES IN BIOLOGY

Biology Core Courses (20 Hours)

<u>Core</u>		<u>Hours</u>	<u>Core</u>		<u>Hours</u>
BIOL 151-152	General Biology	8	BIOL 424	Issues in Natural Sci/Rel	3
BIOL 316	Genetics	4	BIOL 485	Biology Seminar	1
BIOL 412	Cell and Molecular Biology	4			

Areas:**Botany:**

BIOL 408	Flowering Plants and Ferns
BIOL 409	Smoky Mountain Flora
BIOL 419	Plant Physiology

Ecology:

BIOL 226	Environmental Conservation
BIOL 317	Ecology
	Marine Biology Courses

Microbiology:

BIOL 315	Parasitology
BIOL 330	General Microbiology
BIOL 340	Immunology

Zoology Field Courses:

BIOL 312	Vertebrate Natural History
BIOL 314	Ornithology
BIOL 319	Herpetology
BIOL 320	Entomology
BIOL 411	Mammalogy

Basic Zoology:

BIOL 313	Embryology
BIOL 415	Comparative Anatomy
BIOL 417	Animal Histology
BIOL 418	Animal Physiology

Major—B.A. Biology (Chemistry Minor Recommended) (32 Hours)

<u>Required Courses</u>	<u>Hours</u>	<u>Required Cognates</u>	<u>Hours</u>
BIOL 151-152 General Biology	8	CHEM 151-152 General Chemistry	8
BIOL 316 Genetics	4	CHEM 311-314 Organic Chemistry	8
BIOL 412 Cell and Molecular Biology	4	MATH 120 Precalculus Algebra	3
BIOL 424 Issues in Natural Sci/Rel	3	SPCH 135 Intro to Public Speaking	3
BIOL 485 Biology Seminar (W)	1	Computer Course(s)	3

One course minimum from four of the five biology core areas

MATH 121 Precalculus Trigonometry, 2 hours; PHYS 211-212 and 213-214 General Physics and General Physics Laboratory, 8 hours; are highly recommended.

Sample Freshman Year Sequence**B.A. Biology**

(Chemistry Minor Recommended)

<u>1st Semester</u>	<u>Hours</u>	<u>2nd Semester</u>	<u>Hours</u>
BIOL 151 General Biology	4	BIOL 152 General Biology	4
ENGL 101 College Composition	3	ENGL 102 College Composition	3
MATH 120 Precalculus Algebra	3	MATH 121 Precalculus Trigonometry	2
PEAC 125 Conditioning	1	Area B-2, Religion	3
Area B-1, Religion	3	Area G 1/3, Skills	1
Area F-2/3, Fam/Hlth Sci	2	Electives	3
	<u>16</u>		<u>16</u>

Major—B.S. Biology (41 Hours)

<u>Required Courses</u>	<u>Hours</u>	<u>Required Cognates</u>	<u>Hours</u>
BIOL 151-152 General Biology	8	CHEM 151-152 General Chemistry	8
BIOL 316 Genetics	4	CHEM 311-314 Organic Chemistry	8
BIOL 412 Cell and Molecular Biology	4	CPTR Computer Courses	3
BIOL 424 Issues in Natural Sci/Rel	3	MATH 120 Precalculus Algebra	3
BIOL 485 Biology Seminar (W)	1	MATH 121 Precalculus Trigonometry	2
		MATH 215 Statistics	3
		PHYS 211-212 General Physics	6
		PHYS 213-214 General Physics Lab	2
		SPCH 135 Intro to Public Speaking	3

BIOL 397, Introduction to Research (W), 1 hour; BIOL 497, Research in Biology (W), 1-2 hours; and MATH 181, Calculus I, 3 hours, are highly recommended. Forty-one hours minimum including Biology core of 20 hours, plus one course from each of the five areas.

Sample Freshman Year Sequence
B.S. Biology

<u>1st Semester</u>	<u>Hours</u>	<u>2nd Semester</u>	<u>Hours</u>
BIOL 151 General Biology	4	BIOL 152 General Biology	4
ENGL 101 College Composition	3	ENGL 102 College Composition	3
MATH 120 Precalculus Algebra	3	MATH 121 Precalculus Trigonometry	2
Area B-1, Religion	3	Area D, Lang/Lit/ Fine Arts	3
Area F-2,3 Fam/Hlth Sci	2	Area F-1, Beh Sci	3
	15	Area G-3, Rec Skills	1
			16

Major—B.A. Biology, Teacher Certification, 7-12

Secondary certification in Biology requires a baccalaureate degree consisting of 36 credits of specified biology courses, a minor in chemistry, specified cognates, and completion of professional education courses (page 118) for licensure. See explanations in the Education and Psychology section, beginning on page 109.

<u>Required Courses</u>	<u>Hours</u>	<u>Chemistry Minor</u>	<u>Hours</u>
BIOL 151-152 General Biology	8	CHEM 151-152 General Chemistry	8
BIOL 226 Environmental Conservation	3	CHEM 311-314 Organic Chemistry	8
BIOL 316 Genetics	4	CHEM 323 Biochemistry	4
BIOL 330 General Microbiology	4		
BIOL 408 Flowering Plants & Ferns OR	3	<u>Required Cognates</u>	
BIOL 409 Smoky Mt. Flora		ERSC 105 Earth Science	3
BIOL 412 Cell and Molecular Biology	4	RELT 424 Issues in Natural Sci/Rel	3
BIOL 418 Animal Physiology		SPCH 135 Intro to Public Speaking	3
OR	3	MATH 120 Precalculus Algebra	3
BIOL 419 Plant Physiology		MATH 215 Statistics	3
BIOL 485 Biology Seminar (W)	1	PHYS 137 Intro to Physics	3

One Course from the following:

BIOL 312 Vertebrate Natural History	3
BIOL 314 Ornithology	3
BIOL 319 Herpetology	3
BIOL 320 Entomology	3
BIOL 411 Mammalogy	3

Sample Freshman Year Sequence
B.A. Biology
(Leading to Licensure 7-12)

<u>1st Semester</u>	<u>Hours</u>	<u>2nd Semester</u>	<u>Hours</u>
BIOL 151 General Biology	4	BIOL 152 General Biology	4
CHEM 151 General Chemistry	4	CHEM 152 General Chemistry	4
EDUC 135 Intro to Education	2	EDUC 250 Technology in Education	2
ENGL 101 College Composition	3	ENGL 102 College Composition	3
RELT 138 Adventist Heritage	3	MATH 120 Precalculus Algebra	3
	16		16

Minor—Biology (18 Hours)

<u>Required Courses</u>	<u>Hours</u>
BIOL 151-152 General Biology	8
*Biology Electives	10

*An additional ten hours with a minimum of six hours must be in upper division.

NON-MAJOR, NON-MINOR COURSES

BIOL 101-102. Anatomy and Physiology (E-1) 3,3 hours

A study of the fundamentals of human anatomy and physiology. The first semester covers basic cytology, histology, the musculoskeletal, integumentary, nervous, and endocrine systems. The remainder of the body systems are studied the second semester. Two lectures and one three-hour laboratory period each week. Does not apply on a major or minor in Biology. (Fall, Spring, Summer)

BIOL 103. Principles of Biology (E-1) 3 hours

A basic general education biology course designed to give the student a modern treatment of the fundamental processes and principles of plant and animal life. Two lectures and one three-hour laboratory each week. Does not apply on a major or minor in Biology. (Fall, Spring)

BIOL 225. Basic Microbiology (E-1) 4 hours

A study of the principles of microbiology, disinfection, sterilization, elementary immunology, and microorganisms emphasizing their relationship to health and disease. Three lectures and two one and one-half hour laboratory periods each week. Does not apply on a major or minor in Biology. (Fall, Spring, Summer)

CORE COURSES

BIOL 151-152. General Biology (E-1) 4,4 hours

This is a rigorous introductory course in Biology primarily for Biology majors, minors, and pre-professional students. The course is designed to give the student a solid foundation in the fundamental processes of plant and animal life. It is prerequisite to most all other Biology major courses. Three lectures and one three-hour laboratory period each week. (Fall, Spring)

BIOL 316. Genetics 4 hours

Prerequisite: BIOL 225 or 151, or consent of instructor.

A study of heredity as related to man, domestic plants and animals and an investigation of gene structure and function. Three lectures and one three-hour laboratory period each week. (Spring)

BIOL 412. Cell and Molecular Biology 4 hours

Prerequisites: BIOL 151-152; BIOL 316.

This course, designed for advanced Biology and Chemistry majors, deals primarily with cell structure and function. Building on cellular principles learned in BIOL 151-152, the student is exposed to methods of cellular research while learning about the appearance and operation of cellular organelles. The exciting details of cell integration and control provide the framework for this interdisciplinary study. Three lectures and one three-hour laboratory period each week. (Fall)

BIOL 424. Issues of Natural Science and Religion (E-1) (W) 3 hours

Prerequisite: Senior standing.

A study of the philosophical basis of modern natural science as it relates to current issues in origins, biotechnology, bioethics, and environmental responsibility. Special attention is given to Christian perspectives of the issues discussed. Credit can be applied toward either Biology or Religion. Three lectures each week. (Fall)

BIOL 485. Biology Seminar (W)**1 hour**

Prerequisites: Biology major or minor with senior standing.

Reports are made on some specific problem in the field of Biology and on current literature in the field. To be taken in the senior year or with approval of Department Chair. (Fall, Spring)

BOTANY**BIOL 408. Flowering Plants and Ferns****3 hours**

Prerequisites: BIOL 151-152 or consent of instructor.

This field study of trees, flowering plants and ferns emphasizes species identification with the aid of botanical keys, recognition of plant families and noting habitats where various species occur. Other taxonomic methods will be introduced. Students will prepare a collection of herbarium specimens. Two lectures and one field trip or three-hour laboratory period each week. (Fall, odd years; Summer, even years)

BIOL 409. Smoky Mountain Flora**3 hours**

Prerequisite: BIOL 152 or consent of instructor.

A field study of the wild flowers, shrubs and trees in the Great Smoky Mountain National Park, which contains the world's finest examples of temperate deciduous forest. Plants are identified by means of botanical keys, and observation lists are kept. Special attention is given to the different forest types and their associated plants. Involves a 10-day to three-week camping study experience. Field trips daily. (Summer, odd years)

BIOL 419. Plant Physiology**3 hours**

Prerequisites: BIOL 151-152 and CHEM 151-152 or consent of instructor.

A study of the functions of seed plants. Topics covered include water relations, mineral nutrition, photosynthesis, transpiration, translocation, respiration, and growth. Two lectures and one three-hour laboratory period each week. (Spring, odd years)

ECOLOGY**BIOL 226. Environmental Conservation (E-1)****3 hours**

Prerequisites: BIOL 151-152 or consent of instructor.

This very relevant course introduces the student to the very complex interlocking environmental problems facing us today. Beginning with basic ecological principles, the course goes on to examine population dynamics, energy utilization, resource consumption, the various forms of pollution, and conservation methods to preserve our natural resources, natural areas, and native species. On field trips we will evaluate how efficiently our natural resources are being monitored, utilized, and conserved. Two lectures and one field trip or three-hour laboratory period each week. (Spring)

BIOL 250. Introduction to Tropical Marine Biology (E-1) **3 hours**

A study of the major invertebrates and fish of the tropical coral reef and seashores. Emphasis is placed on the life habits of the organisms and their ecological niches. Habitats studied are coral reefs, rocky shores, sandy beaches, thalassia beds and mangrove swamps. Involves two weeks of on-campus classwork and 7-10 day field laboratory experience in the Bahamas. There is an additional charge for the Bahamas trip. (Summers)

BIOL 317. Ecology**3 hours**

Prerequisites: BIOL 151-152 or consent of instructor.

Ecology is a study of the interrelationships of plants, animals and their environment. This course will examine these interactions in the context of energy flow, nutrient cycles, limiting factors, succession and population dynamics. Field work will introduce various ecological sampling techniques and the student will participate in ecological analysis of various local communities as well as extended field trips. Two lectures and one field trip or three-hour laboratory period each week. (Fall)

ZOOLOGY FIELD COURSES**BIOL 312. Vertebrate Natural History****3 hours**

Prerequisites: BIOL 151-152 or consent of instructor.

Natural history of the vertebrate classes including ecology, physiology, behavior, classification and identification, with emphasis on local species. Two lectures and one three-hour laboratory each week. An extended weekend field trip will be required as part of laboratory credit. (Fall, even years)

BIOL 314. Ornithology (E-1)**3 hours**

A systematic study of bird life with special emphasis on external features, taxonomy, nesting and feeding habits, flight and migratory patterns. Two lectures and one laboratory period each week. An extended field trip, which applies toward laboratory credit, is planned during spring vacation. There is an additional charge for the trip. (Spring, odd years)

BIOL 319. Herpetology**3 hours**

Prerequisites: BIOL 151-152 or consent of instructor.

Natural history, ecology, physiology, behavior, classification and identification of amphibians and reptiles, with emphasis on local species. Two lectures and one three-hour laboratory each week. An extended field trip will be required as part of laboratory credit. (Fall, odd years)

BIOL 320. Entomology**3 hours**

Prerequisites: BIOL 151-152 or consent of instructor.

A systematic study of the insects of the world considering anatomy, physiology, behavior and relation to humans. In the laboratory, emphasis will be placed on identifying local insects and a representative collection will be turned in. Short field trips are planned as part of the laboratory work. Two lectures and one three-hour laboratory period each week. (Fall, odd years)

BIOL 411. Mammalogy**3 hours**

Prerequisites: BIOL 151-152 or consent of instructor.

A study of the mammals of the world, with emphasis on North America. Includes classroom and field study of systematics, distribution, behavior and ecology. A small collection will be required in the laboratory. Two lectures and one three-hour laboratory each week. (Fall, even years)

MICROBIOLOGY**BIOL 315. Parasitology (W)****3 hours**

Prerequisites: BIOL 151-152 or consent of instructor.

A general survey of the more important parasites of man and domestic animals. Two lectures and one three-hour laboratory period each week. (Spring, even years)

BIOL 330. General Microbiology**4 hours**

Prerequisites: BIOL 151-152 or consent of instructor.

A general study of bacteria, yeasts, molds and viruses, considering their morphology, physiology, genetics and methods of control. Study will be given to immunology topics: antigen-antibody properties, host-antigen interactions, humoral and cellular immune systems. The importance of microorganisms in environmental and applied fields will be considered. Three lectures and one three-hour laboratory period each week. (Spring)

BIOL 340. Immunology**2 hours**

Prerequisites: BIOL 151-152 or consent of instructor.

A study of the basic aspects of the human immune system including topics such as antigen and antibody structure and reactions, humoral and cell mediated immunity, hypersensitivity, immune disease and transplantation immunology. Two lectures each week. (Spring)

BASIC ZOOLOGY

BIOL 313. Embryology**3 hours**

Prerequisites: BIOL 151-152 or consent of instructor.

An introduction to the development of the vertebrate animal with emphasis on the development of the chick. Two lectures and one three-hour laboratory period each week. (Fall)

BIOL 415. Comparative Anatomy**3 hours**

Prerequisites: BIOL 151-152 or consent of instructor.

A comparison of the anatomy of the various organ systems of vertebrates. The dogfish shark, mud puppy, cat, and/or fetal pig are used for laboratory study. Two lectures and one three-hour laboratory period each week. (Spring)

BIOL 417. Animal Histology**3 hours**

Prerequisites: BIOL 151-152 or consent of instructor.

A descriptive study of normal tissues, primarily those of man. The microscopic identification and characteristics of stained sections are emphasized in the laboratory. Two lectures and one three-hour laboratory period each week. (Spring, odd years)

BIOL 418. Animal Physiology**3 hours**

Prerequisites: BIOL 151-152 or consent of instructor.

Functional processes used by animals in adjusting to their external environment and controlling their internal environment. Laboratories involve analysis of functions of major organ systems. Two lectures and one three-hour laboratory period each week. (Spring, even years)

SPECIAL COURSES

BIOL 365. Topics in Biology**1-3 hours**

Formal coursework designed to meet the needs or interests of students in specialty areas of Biology not covered in regular courses. May be repeated in different specialized areas.

BIOL 295/495. Directed Study**1-3 hours***Prerequisites:* BIOL 151-152 or consent of instructor.

BIOL 495 open to Biology majors or minors only.

Designed for the individual student or group of students who wish to do independent study in an area of biology not listed in the regular offerings. Content and method of study must be arranged for prior to registration. This course may be repeated for credit. (Fall, Spring, Summer—on demand)

BIOL 387. Animal Behavior**3 hours***Prerequisites:* BIOL 151-152 or PSYC 124 and 128.

The behavior of animals is studied with a focus on both proximate causes of behavior (mechanisms) as well as ultimate causes of behavior (survival strategies). Special importance will be placed on understanding techniques of experimental study and hypothesis testing. Topics covered include: genetic, developmental, and physiological bases of behavior; instinct and learning; communication; habitat selection; feeding, antipredatory, reproductive, and parenting strategies; mating systems, social behavior and human sociobiology. Three lectures each week. (Spring, even years)

BIOL 397. Introduction to Biological Research (W)**1 hour***Prerequisites:* BIOL 151-152 or consent of instructor.

An introduction to the principles of scientific research, including the function of the scientific method, literature searches, research techniques, writing of grant proposals, and how to publish results. (Fall)

BIOL 497. Research in Biology (W)**1-2 hours***Prerequisite:* BIOL 397 or consent of instructor.

Individual research under the direction of members of the staff. Problems will be selected according to the interest and experience of the student. Prior to registration, students are urged to contact all biology staff members with respect to the choice of available research problems. This course should be taken not later than the first semester of the senior year. (Fall, Spring, Summer—on demand)

EDUCATION**EDUC 438. Curriculum and Content Methods/Biology****1 hour***Prerequisite:* Admission to Teacher Education.

Attention is given to methods and materials of instruction; planning, testing, and evaluating student performance; and the survey and evaluation of textbooks.

**ROSARIO BEACH
MARINE BIOLOGICAL FIELD STATION**

The Rosario Beach Marine Station is a teaching and research facility operated by Walla Walla College in affiliation with Southern College and other Adventist colleges. Located seven miles south of Anacortes, Washington, the station occupies 40 acres of beach and timberland. In addition to some of the biology courses listed in this catalog, the following are among those taught during the summer at Rosario Beach:

BIOL 200. Introduction to Marine Biology**3 hours**

An overview course designed to introduce general education students to the biology and ecology of the marine environment. Course not applicable to Biology majors.

BIOL 460. Marine Ecology 3 hours

Prerequisites: BIOL 151-152.

Study of interspecific, intraspecific, and community relationships demonstrated by marine organisms.

BIOL 463. Marine Botany 3 hours

Prerequisites: BIOL 151-152.

Systematic study of plants found in Puget Sound, with a survey of marine plants from other areas.

BIOL 468. Comparative Physiology 3 hours

Prerequisites: BIOL 151-152, BIOL 412.

Comparative study of the physiology and life processes of animals with emphasis on invertebrates.

BIOL 475. Marine Invertebrates 3 hours

Prerequisites: BIOL 151-152.

A description of selected groups of marine invertebrates. The course will involve extensive collection, classification, and study of the marine invertebrates of the Puget Sound.

BIOL 516. Behavior of Marine Organisms 3 hours

Prerequisites: BIOL 151-512 and Animal Behavior or Introduction to Psychology.

A study of intra- and interspecific behaviors of marine animals and their behavioral responses to the physical environment. The course involves laboratory experiences, field observation, and a research project.

(E-1) (W) See pages 25-29 for explanation of General Education requirements.

BUSINESS ADMINISTRATION

Chair: Wayne VandeVere

Faculty: Herbert Coolidge, Richard Erickson, Lisa Gano, Jeff Leeper, Cliff Olson, Dan Rozell, Vinita Sauder, Jim Segar, Peg Smith

Adjunct Faculty: Clay Crosson, Letitia Erdmann, David Henderson, Jeff Lingerfelt

Advisory Councils:

Accounting: Richard Center, Rhonda Champion, Richard Green, Bo Just, Calvin Wiese

Long-Term Health Care: Glen Choban, Clay Crosson, Mark Gibson, David Henderson, Richard J. Henry Jr., Doug Malin, Jan Rushing, Ben Wygal

Marketing: Barry Anthony, Brian Bergherm, Bud Cason, Danny Fall, Johnny Phillips

The courses and programs offered by the department are designed to prepare students for business-related careers with the church, government, industry, and in long-term health care and to train students for secretarial, office work, and office administration in the modern office.

The objectives of the department are:

1. To give the student a broad background of knowledge of the free enterprise system within a framework of moral and ethical guidelines.
2. To assist the student to develop a sound Christian philosophy toward our current economic environment and the ever-changing business world of the future.
3. To provide the student with a quality academic program with basic business skills required for initial job placement.
4. To encourage Seventh-day Adventist students to serve as workers and in positions of business leadership with organizations sponsored by this denomination.
5. To train office managers, administrative assistants, executive secretaries, and word processing operators and managers.
6. To provide the necessary academic background for entrance into most graduate degree programs in business.

The department offers a Bachelor of Business Administration degree (B.B.A.) with majors in Accounting, Management, Marketing, and Computer Information Systems and a Bachelor of Science degree (B.S.) with majors in Business Administration, Long-Term Health Care, and Office Administration.

For those who desire a two-year program, Associate of Science degrees (A.S.) are available in Accounting and Office Administration.

ASSESSMENT

To help the graduates in Business Administration to evaluate their academic progress and to aid the department in evaluating teaching effectiveness, students who major in business related fields will be required to:

1. Participate in the college-wide testing program in general education.
2. Take the area test in business prepared by the Educational Testing Service (ETS) during the last semester of their academic program.

3. Accounting majors who plan to enter public accounting will be evaluated by their performances on the national CPA exam.

PROGRAMS IN BUSINESS ADMINISTRATION

B.B.A. Core Requirements: The B.B.A. degree requires a basic core of business courses plus a major in Accounting, Management, Marketing, or Computer Information Systems. The basic core course requirements are as follows:

B.B.A. Core (43 Hours)

<u>Required Courses</u>	<u>Hours</u>	<u>Required Courses, cont.</u>	<u>Hours</u>
ACCT 221-221 Principles of Accounting	6	BUAD 358 Legal, Ethical and Social Environment of Bus	3
ACCT 321 Managerial Accounting	3	BUAD 488 Seminar in Bus Admin	1
BUAD 126 Intro to Business	3	BMKT 326 Intro to Marketing	3
BUAD 128 Personal Finance	3	ECON 224 Prin of Economics (Macro)	3
BUAD 314 Quant Meth for Bus Decision	3	ECON 225 Prin of Economics (Micro)	3
BUAD 315 Business Finance	3	OFAD 315 Business Communications	3
BUAD 334 Prin of Management	3		
BUAD 339 Business Law	3		
<u>Required Cognates</u>	<u>Hours</u>	<u>Required Cognates, cont.</u>	<u>Hours</u>
CPTR 106 Intro to Spreadsheets	1	MATH 215 Statistics	3
CPTR 116 Spreadsheet Applications	2	PSYC Any 3-hour class	3
MATH 120 Precalculus Algebra	3	SPCH 135 Intro to Public Speaking	3

Major—B.B.A. Accounting (66 Hours)

<u>Required Courses</u>	<u>Hours</u>	<u>Required Courses, cont.</u>	<u>Hours</u>
BBA Core	43	ACCT 417 Auditing	3
ACCT 311-312 Intermediate Accounting	8	ACCT 421 Federal Taxes I	3
ACCT 316 Government & Fund Accounting	3	Electives in Accounting	3
ACCT 322 Cost Accounting	3		

For Accounting majors who wish to sit for the CPA examination in Tennessee or any other state that requires 150 semester hours to sit for the examination, the following courses are recommended in addition to the 124 hours for the BBA in Accounting degree (choose 26 hours that are not included in the 124 hours above):

<u>Required Courses</u>	<u>Hours</u>	<u>Required Courses, cont.</u>	<u>Hours</u>
ACCT 415 Advanced Accounting	3	CPTR 131 Fund of Programming	3
*ACCT 432 Auditing Applications	3	CPTR 217 COBOL Program Language	3
*ACCT 422 Federal Income Taxes II	3	ENGL 313 Expository Writing	3
ACCT 418,419 CPA Review Problems	6	SPCH 136 Inter Communication	3
ACCT 443 Accounting Systems	3		
ACCT 497 Accounting Internship	1-3		

*These courses are required by the state of Tennessee as part of the 150 hours required for C.P.A. candidates.

Major—B.B.A. Management (64 Hours)

<u>Required Courses</u>	<u>Hours</u>	<u>Required Courses, cont.</u>	<u>Hours</u>
BBA Core	43	BUAD 354 Principles of Risk Mgt	3
BUAD 344 Human Resource Mgt	3	BUAD 414 Business Strategies	3
BUAD 353 Management of a Small Bus	3	Electives in ACCT, BMKT, BUAD, or OFAD	9

Major—B.B.A. Marketing (64 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
	BBA Core	43	BMKT 424	Marketing Strategy	3
BMKT 327	Consumer Behavior	3	BMKT 425	Marketing Research	3
BMKT 328	Sales Management	3	BMKT 497	Marketing Internship	3
BMKT 423	Promotional Strategy	3	CPTR 345	Computer-Aided Publishing	3

Sample Freshman Year Sequence

B.B.A. Accounting, B.B.A. Management, B.B.A. Marketing

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
BUAD 126	Intro to Business	3	BUAD 128	Personal Finance	3
ENGL 101	College Composition	3	CPTR 106	Intro to Spreadsheet	1
MATH 120	Precalculus Algebra	3	CPTR 116	Spreadsheet Application	2
	Area B-1, Religion	3	ENGL 102	College Composition	3
	Area C-1, History	3		Area F-1, Psychology	3
	Area G-3, Rec Skills	1		Area C-1, History	3
		16		Area G-3, Rec Skills	1
					16

Major—B.B.A. Computer Information Systems (65 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
	BBA Core†	37	CPTR 318	Data Structures	3
CPTR 106	Intro to Spreadsheets	1	CPTR 319	Data Base Management Sys	3
CPTR 116	Spreadsheet Applications	2	CPTR 324	Systems Analysis	2
CPTR 131-132	Fund of Programming	6	CPTR 325	Systems Design	2
CPTR 217	COBOL Programming Lang	3	CPTR 326	Systems Management	2
CPTR 317	Intro to File Processing	3	CPTR 485	Computer Science Seminar	1
<u>Required Cognates</u>		<u>Hours</u>	<u>Required Cognates, cont.</u>		<u>Hours</u>
MATH 120	Precalculus Algebra	3	SPCH 135	Intro to Public Speaking	3
MATH 181	Calculus I	3		Psychology course	
MATH 215	Statistics	3			

†Core requirements BUAD 315 and BMKT 326 are not required for the Computer Information Systems major.

Sample Freshman Year Sequence

B.B.A. Computer Information Systems

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
BUAD 126	Intro to Business	3	CPTR 106	Intro to Spreadsheet	1
CPTR 131	Fund of Prog I	3	CPTR 116	Spreadsheet Applications	2
ENGL 101	College Composition	3	CPTR 132	Fund of Prog II	3
	Area B-1, Religion	3	ENGL 102	College Composition	3
	Area C-1, History	3	SPCH 135	Intro to Public Speaking	3
	Area G-1, G-3, Skills	1		Area C-1, History	3
		16		Area G-1, G-3, Skills	1
					16

Major—B.S. Business Administration (46 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
ACCT 221-222	Prin of Accounting	6	BUAD 414	Business Strategies	3
ACCT 321	Managerial Accounting	3	BUAD 488	Sem in Business Admin	1
BUAD 314	Quant Mthds for Bus Decisions	3	BMKT 326	Intro to Marketing	3
BUAD 315	Business Finance	3	ECON 224	Prin of Economics (Macro)	3
BUAD 334	Principles of Management	3	ECON 225	Prin of Economics (Micro)	3
BUAD 339	Business Law	3	MATH 215	Statistics	3
BUAD 358	Legal, Ethical, Social Env of Business	3		Electives in ACCT, BMKT, BUAD, or OFAD	6
<u>Required Cognates</u>		<u>Hours</u>			
CPTR 106, 116	Spreadsheets and App	3			
OFAD 315	Business Communications	3			
SPCH 135	Intro to Public Speaking	3			

Sample Freshman Year Sequence
B.S. Business Administration

1st Semester		Hours	2nd Semester		Hours
BUAD 126	Intro to Business	3	BUAD 128	Personal Finance	3
ENGL 101	College Composition	3	CPTR 106	Intro to Spreadsheet	1
MATH 120	Precalculus Algebra	3	CPTR 116	Spreadsheet Applications	2
	Area B-1, Religion	3	ENGL 102	College Composition	3
	Area C-1, History	3	SPCH 135	Intro to Public Speaking	3
	Area G-1, G-3, Skills	1		Area C-1, History	3
		16		Area G-1/G-3, Skills	1
					16

Major—B.S. Long-Term Health Care (50 hours)

Required Courses	Hours	Required Courses, cont.	Hours
ACCT 221-222 Prin of Accounting	6	LTHC 431 General Admin of the	
ACCT 321 Managerial Accounting	3	Long-Term Care Facility	3
ECON 224 Prin of Economics (Macro)	3	LTHC 432 Technological Aspects of	
ECON 225 Prin of Economics (Micro)	3	Long-Term Care	3
BMKT 326 Intro to Marketing	3	LTHC 434 Financial Management of	
BUAD 315 Business Finance	3	Long-Term Care Facility	3
BUAD 334 Prin of Management	3	LTHC 435 Human Res Mgt and Marketing	
BUAD 339 Business Law	3	of Long-Term Care Facility	3
BUAD 358 Legal, Eth, Social		LTHC 497 Long-Term Care Admin Intern	8
Environment of Bus	3		
Required Cognates	Hours		
CPTR 106, 116 Spreadsheets and App	3		
SOCI 349 Aging and Society	3		
SPCH 135 Intro to Public Speaking	3		

Sample Freshman Year Sequence
B.S. Long-Term Health Care

1st Semester	Hours	2nd Semester	Hours
ENGL 101 College Composition	3	ENGL 102 College Composition	3
MATH 120 Precalculus Algebra	3	CPTR 106 Intro to Spreadsheet	1
SPCH 135 Intro to Public Speaking	3	CPTR 116 Spreadsheet Applications	2
		Area E, Natural Science	3
		Area C-1, History	3
		Area F-1, Psychology	3
		Area G-1/G-3, Skills	1
	16		16

Students who have previously earned a bachelor's degree from an accredited college or university and who have completed all classwork required for a long-term health care major other than the specialized long-term health care classes, may receive a Bachelor of Science degree with a major in long-term health care upon the completion of 20 hours of long-term health care classes (LTHC 431, 432, 434, 435, 497).

This exception to the 30-hour residence requirement applies only to those who have completed all other major course requirements for the long-term health care degree at another institution and have received a bachelor's degree. Regular admission to the LTHC program is subject to receipt of an official transcript showing completion of the bachelor's degree from the former accredited institution.

Major—B.S. Office Administration (53 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
ACCT 221-222	Principles of Accounting	6	OFAD 216	Business English	3
BUAD 128	Personal Finance	3	OFAD 218	Bus Math Calculations	2
BUAD 334	Principles of Management	3	OFAD 221	Office Transcription	3
BUAD 339	Business Law	3	OFAD 223	Office Systems Technology	3
BUAD 344	Human Resource Management	3	OFAD 228	Speedwriting Techniques	3
ECON 213	Survey of Economics	3	OFAD 315	Business Communications	3
	OR	3	OFAD 317	Office Admin Procedures	3
ECON 224	Principles of Economics	3	OFAD 345	Computer-Aided Publishing	3
OFAD 115	Document Formatting	3	Upper division electives in		
OFAD 213	Information Resource Mgt	3	ACCT, BUAD, or OFAD		3

<u>Required Cognates</u>		<u>Hours</u>
CPTR 120	Intro to Computer-Based Sys or equivalent	3
CPTR 105	Intro to Word Processing	1
CPTR 106	Intro to Spreadsheets	1
CPTR 107	Intro to Data Base	1
SPCH 135	Intro to Public Speaking	3

**Sample Freshman Year Sequence
B.S. Office Administration**

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
ENGL 101	College Composition	3	BUAD 128	Personal Finance	3
OFAD 115	Document Formatting	3	ENGL 102	College Composition	3
OFAD 213	Information Res Mgmt	3	OFAD 218	Business Math Cal	2
OFAD 216	Business English	3	OFAD 221	Office Transcription	3
PEAC 125	Conditioning	1	OFAD 223	Office Systems Tech	3
	Area B, Bible	3	Area C, History		3
		16			17

Major—A.S. Accounting (32 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
ACCT 221-222	Prin of Accounting	6	ECON 213	Survey of Economics	3
ACCT 311-312	Intermediate Accounting	8		OR	
ACCT 321	Managerial Accounting	3	ECON 224	Prin of Econ (Macro)	3
BUAD 126	Intro to Business	3	Electives in ACCT, BUAD, ECON, or OFAD		3
BUAD 128	Personal Finance	3			
BUAD 358	Legal, Eth and Social Environ of Business	3			

<u>Required Cognates</u>		<u>Hours</u>
CPTR 106,116	Spreadsheets and App	3
SPCH 135	Intro to Public Speaking	3

**Sample Freshman Year Sequence
A.S. Accounting**

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
ACCT 221	Prin of Accounting	3	ACCT 22	Prin of Accounting	3
BUAD 126	Intro to Business	3	CPTR 106	Intro to Spreadsheet	1
ECON 224	Prin of Economics	3	CPTR 116	Spreadsheet Applications	2
	OR	3	ENGL 102	College Composition	3
ECON 213	Survey of Economics	3		Area F-1, Psychology	3
ENGL 101	College Composition	3		Area A-2, Math	0-3
	Area B-1, Religion	3		Electives	4-1
	Area G-3, Rec Skills	1			16
		16			

Major—A.S. Office Administration (41 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses</u>		<u>Hours</u>
ACCT 103	College Accounting OR	3	OFAD 216	Business English	3
ACCT 221	Prin of Accounting		OFAD 218	Business Math Calculations	2
BUAD 128	Personal Finance	3	OFAD 221	Office Transcription	3
CPTR 105	Intro to Word Processing	1	OFAD 223	Office Systems Tech	3
CPTR 106	Intro to Spreadsheets	1	OFAD 228	Speedwriting Techniques	3
CPTR 107	Intro to Data Base	1	OFAD 230	Office Admin Internship	3
OFAD 115	Document Formatting	3	OFAD 245	Computer-Aided Publishing	3
OFAD 213	Information Resource Mgt	3	OFAD 315	Business Communications	3
			OFAD 317	Office Admin Procedures	3
<u>Required Cognate</u>		<u>Hours</u>			
SPCH 135	Intro to Public Speaking	3			

**Sample Freshman Year Sequence
A.S. Office Administration**

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
ENGL 101	College Composition	3	BUAD 128	Personal Finance	3
OFAD 115	Document Formatting	3	ENGL 102	College Composition	3
OFAD 213	Information Res Mgmt	3	OFAD 218	Business Math Cal	2
OFAD 216	Business English	3	OFAD 221	Office Transcription	3
PEAC 125	Conditioning	1	OFAD 223	Office Systems Tech	3
	Area B, Bible	3		Area C, History	3
		16			17

**MINORS IN BUSINESS, MARKETING,
AND OFFICE ADMINISTRATION****Minor—Business Administration (18 Hours)**

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
ACCT 221-222	Prin of Accounting	6	ECON 213	Survey of Economics OR	3
BUAD 334	Prin of Management OR	3	ECON 224	Prin of Economics (Macro) Upper Division Electives in ACCT, BUAD	6
BUAD 344	Human Resource Mgt				

Minor—Marketing (18 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
BMKT 326	Intro to Marketing	3	BMKT 424	Marketing Strategy	3
BMKT 327	Consumer Behavior	3		Electives in Marketing	9

Minor—Office Administration (18 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
OFAD 115	Document Formatting	3	OFAD 223	Office Systems Technology	3
OFAD 216	Business English	3	OFAD 315	Business Communications	3
OFAD 221	Office Transcription	3	OFAD 345	Computer-Aided Publishing	3

The following courses **MUST BE TAKEN** in residence at Southern College in various Business Department majors:

<u>B.B.A. Degree</u>	<u>Hours</u>	<u>B.S. Degree:Hours</u>	
BBA Core:		Business Administration Major:	
BUAD 315 Finance	3	BUAD 315 Finance	3
BUAD 358 Legal/Eth/Social		BUAD 358 Legal/Eth/Social	
Envir of Bus	3	Envir of Bus	3
BUAD 488 Business Seminar	1	BUAD 414 Business Strategies	3
	<u>7</u>	BUAD 488 Business Seminar	1
			<u>10</u>
Accounting Major:		LTHC Major:	
ACCT 417 Auditing	3	LTHC 431 Gen Admin LTC Facility	3
		LTHC 432 Tech Aspects of LTC	3
Management Major:		LTHC 434 Fin Mgmt LTC Facility	3
BUAD 414 Business Strategies	3	LTHC 435 Human Resource Mgmt &	
		Marktg LTC Facility	3
Marketing Major:		LTHC 497 LTC Internship	8
BMKT 424 Marketing Strategy	3		<u>20</u>
BMKT 425 Marketing Management	<u>3</u>		
	<u>6</u>		
		Office Administration Majors	
		(4 year and 2 year):	
		OFAD 317 Office Admin Proced	3

ACCOUNTING

ACCT 103. College Accounting (G-2) 3 hours

This course covers the fundamental accounting processes dealing with the book-keeping and accounting functions for the small business, professional offices, merchandising firms and service organizations. This course does not apply toward a bachelor's degree offered by the Department of Business and Office Administration. (Fall)

ACCT 221-222. Principles of Accounting (G-2) 3,3 hours

A course designed to introduce the student to the "Generally Accepted Accounting Principles." The theory of debit and credit, transaction analysis, financial statement preparation, analysis of basic balance sheet accounts, income recognition, and basic management accounting concepts are covered. Usually not open to freshmen. (Fall, Spring, Summer)

ACCT 311-312. Intermediate Accounting 4,4 hours

Prerequisites: ACCT 221-222.

An advanced course in accounting principles and theory including preparation of financial statements, intensive study and analysis of the classification and evaluation of balance sheet accounts and their related income and expense accounts. (Fall, Spring)

ACCT 316. Governmental and Fund Accounting 3 hours

Prerequisites: ACCT 221-222.

A course designed to provide an in-depth coverage of the concepts of fund accounting as they apply to governmental units and not-for-profit institutions including schools and hospitals. Attention will be given to the pronouncements of the Governmental Accounting Standards Board. (Fall)

ACCT 321. Managerial Accounting**3 hours****Prerequisite:** ACCT 222.

A study of cost accounting fundamentals with emphasis on accounting as a managerial tool. Special attention is given to cost-volume-profit relationships, job-order costing, budgeting, standard costing, capital budgeting, cost behavior patterns, transfer pricing, and divisional performance measurement. (Fall)

ACCT 322. Cost Accounting**3 hours****Prerequisites:** ACCT 321 and MATH 215.

An in-depth study of the more technical aspects of cost accounting systems, including cost allocations, joint product and by-product accounting, actual, standard, and direct cost methods. Process cost is emphasized. The more quantitative aspects of management are covered including decision-making under uncertainty, inventory control, cost behavior and regression analysis, the variance investigation decision, and mix and yield variances. (Spring)

ACCT 415. Advanced Accounting**3 hours****Prerequisites:** ACCT 311-312.

A course designed to study the problems concerned with consolidated financial statements, partnerships, business firms in financial difficulty, estates and trusts, foreign exchange, segment reporting. (Spring)

ACCT 417. Auditing**3 hours****Prerequisites:** ACCT 311-312.

A course designed to study auditing and its related types of public accounting work including generally accepted auditing standards, professional code of ethics of the AICPA, and auditing procedures. (Fall)

ACCT 418, 419. C.P.A. Review Problems**3,3 hours****Prerequisite:** Permission of instructor.

A course designed to study accounting theory, auditing, accounting practice, and business law as exemplified by the official accounting pronouncements of the AICPA and FASB. (Fall, Spring)

ACCT 421. Federal Income Taxes I**3 hours****Prerequisite:** ACCT 221.

An introductory course designed to provide training in the application of the Federal Internal Revenue Code to the tax problems of individuals. Primary emphasis is on Federal Income Taxes but Social Security Taxes will also be included. (Fall)

ACCT 422. Federal Income Taxes II**3 hours****Prerequisite:** ACCT 421.

A course designed to provide training in the application of the Federal Internal Revenue Code to the tax problems facing corporations, partnerships, estates, trusts. An introduction to tax research will also be included. (Spring)

ACCT 437. Auditing Applications**3 hours****Prerequisite:** ACCT 417.

An advanced course in auditing with emphasis on auditing in the EDP environment and the use of statistical techniques. A practice set will be required. (Spring)

ACCT 443. Accounting Systems I**3 hours****Prerequisite:** ACCT 222.

A study of accounting information systems. Internal control, reporting systems, computer based systems and systems development will be covered. (Fall)

MARKETING

BMKT 326. Introduction to Marketing **3 hours**

A study of the nature and functions of marketing. Includes marketing institutions, basic problems in the marketing of commodities and services, price policies, and competitive practices. (Fall, Spring)

BMKT 327. Consumer Behavior **3 hours**

Prerequisite: BMKT 326.

An analysis of the consumer decision making process where behavioral science is combined with marketing theory to enable the marketer to understand and predict consumer behavior in the various stages of the buying decision. (Fall)

BMKT 328. Sales Management **3 hours**

Prerequisite: BMKT 326.

An examination of the basic sales processes necessary to achieve organizational objectives and the professional techniques used in the management of the sales force ranging from planning-recruiting to day-to-day management. (Fall)

BMKT 423. Promotional Strategy **3 hours**

Prerequisite: BMKT 326.

An analysis of integrated marketing communications, with an emphasis on the role of advertising, promotion, direct marketing, and public relations. Topics include setting advertising objectives and budget, media strategy, creative strategy, and evaluating promotional effectiveness. Focus is on the design and management of a complete promotional strategy for an organization. (Spring)

BMKT 424. Marketing Strategy **3 hours**

Prerequisite: BMKT 326.

A case study approach to the solving of major marketing problems of various organizations and the ability to formulate appropriate strategies in responding to the presented case problems. (Spring)

BMKT 425. Marketing Research **3 hours**

Prerequisite: BMKT 326.

A study of the role of research in marketing decision-making; research design, implementation, and analysis and interpretation of research findings. Students will do research for a real business organization, concluding with a research and marketing recommendation report to the sponsoring organization. (Spring)

BMKT 497. Marketing Internship **3 hours**

Prerequisites: Junior or senior status and departmental approval.

Students obtain on-the-job experience working at an ad agency, marketing department, marketing research company, wholesaler, retailer, or company sales department. A minimum of 130 clock hours of work experience is required. A two-thirds tuition waiver applies to this class, calculated according to the policy on catalog page 236.

BUSINESS ADMINISTRATION

BUAD 126. Introduction to Business (G-2) **3 hours**

A course designed to provide a basic understanding of the American business system and free enterprise concepts. Business practices, business terminology and contemporary business issues are covered. Students who have 18 or more hours of credit in business courses are ineligible to take this course for credit. (Fall, Spring)

BUAD 128. Personal Finance (F-2) 3 hours

A course in basic economic concepts and business terminology and practices designed to provide the techniques to manage personal finances. Budgeting, consumerism, insurance, home ownership, and investments are included in the topics covered. (Fall, Spring)

BUAD 314. Quantitative Methods for Business Decisions 3 hours

Prerequisite: MATH 215.

Linear Programming—simplex method, primal/dual interpretation, transportation problems. Decision theory under classical and Bayesian statistics. Game theory, inventory models and control, queuing theory. Program Evaluation and Review Technique (PERT). (Spring)

BUAD 315. Business Finance (W) 3 hours

Prerequisites: ACCT 221-222.

A study of the fundamental principles of financial organization. Emphasis on instruments of finance, policies of capitalization, problems pertaining to working capital, and corporate expansion and reorganization. (Fall, Summer)

BUAD 334. Principles of Management 3 hours

A beginning course designed to study business management including an analysis of business policies viewed from the standpoint of the functional characteristics of the management process and current ethics. (Fall, Spring)

BUAD 339. Business Law 3 hours

A course designed to study the nature and social functions of law including social control through law and the law of commercial transactions (uniform commercial code) and business organizations. (Spring)

BUAD 344. Human Resource Management 3 hours

An introduction to the organization, training, motivation, and direction of employees with a view to maintaining their productivity and morale at high levels. Among topics covered are selection, training, compensation and financial incentives, work standards, techniques of supervision and leadership. (Spring)

BUAD 353. Management of a Small Business 3 hours

A course on the principles and problems of organizing and operating a small business. Topics covered will include a procedural system for establishing a new business, providing physical facilities, financing, organizing, and the management of the small business. (Fall)

BUAD 354. Principles of Risk Management 3 hours

An introductory study in the field of risk management. Material covered includes Insurance categories covered include liability, property, health and life. The primary emphasis will be on business applications, but some consideration will be given to the personal risk. (Spring)

BUAD 358. Legal, Ethical, and Social Environment of Business 3 hours

A study of how business should operate within the legal, ethical and political environment, its relationship to government agencies and control, and how individuals in leadership should relate to various social and ethical problems. (Fall)

BUAD 414. Business Strategies (W) 3 hours

Prerequisites: ACCT 222; BMKT 326; BUAD 334, 315.

This course of study is designed to give the student experience in decision-making and problem-solving through the case method. Students learn to identify, analyze, propose alternative solutions and make satisfactory decisions about business problems. Attention will be given both to internal problems and the external competitive nature of business. (Spring)

BUAD 425. Fundamentals of Investments 3 hours

Prerequisite: ACCT 222.

A practical, as well as a theoretical, approach is taken for the potential investor of institutional or personal funds through the use of problems, readings, and cases. Topics covered will include stocks and bonds in the security market, real estate, and fixed equipment investments. (Spring)

BUAD 488. Seminar in Business Administration 1 hour

This course will include the Eugene Anderson Lecture Series in business. Top men and women in their field will present lectures in insurance, real estate, finance, retailing, production management, etc. Attendance at ten lectures will be required. This course may be repeated for credit. (Spring)

BUAD 295/495. Directed Study 1-3 hours

Individual research work open only to business majors. Content to be arranged. Approval must be secured from Department Chair prior to registration.

BUAD 296/496. Business Administration Study Tour 1 hour

A trip designed to acquaint the student with important large business centers and facilities. Focus will be on financial, merchandising, advertising, and cultural organizations. An additional fee will be required to cover travel expenses.

ECONOMICS

ECON 213. Survey of Economics (C-2) 3 hours

A course designed for the general education student. It provides an understanding of the United States' mixed economy through a study of the market system, the role of money, the government's fiscal policy, and the impact of the foreign sector. This course does not apply on a major in accounting, management, or marketing. No credit is available if ECON 224 or 225 has been taken. (Fall)

ECON 224, 225. Principles of Economics (C-2) 3,3 hours

ECON 224 (Macroeconomics) deals with total employment, output and income, with inflation and recession, and with the variables that influence these conditions. ECON 225 (Microeconomics) deals with scarcity and choice, individual goods and markets, and the price mechanism showing how it automatically directs the society's resources into the most desirable uses. (Fall, Spring)

LONG-TERM HEALTH CARE

LTHC 431. General Administration of the Long-Term Care Facility 3 hours

A study of management tools and techniques including theories of organization and management, mechanisms for planning, organizing, directing, and controlling, including a review of the history and philosophy of facilities. A review of licensing requirements, insurance, business law, human relations and public relations will also be included. (Summer)

LTHC 432. Technological Aspects of Long-Term Care 3 hours

A detailed study of the technical aspects of long-term care administration. Their relationship to other health care facilities in the total health care system, and technically related medical relationships and services. A complete review of OBRA is also included. (Summer)

LTHC 434. Financial Management of the Long-Term Care Facility 3 hours

A review of techniques and interpretation of financial information for management decision-making in the long-term care facility. (Summer)

LTHC 435. Human Resource Management and Marketing of the Long-Term Care Facility 3 hours

A study of the organization, training, motivation, and direction of employees with a view to maintaining their productivity and morale at a high level. Selection, compensation, financial incentives, work standards, and leadership are the topics that will be covered. Marketing functions, problems, services, and competitive practices will also be covered. (Summer)

LTHC 497. Long-Term Care Administration Internship 8 hours

A tailored program of management experience in a selected long-term care facility will include 400 clock hours of on-the-job experience. For a fee of \$1 per clock hour, students may take additional on-the-job experience required for national examinations in some states. The internship will be limited to an area within 600 miles of Southern College, and if it is beyond that additional fees may be imposed to cover the cost. The number of on-site visits by college personnel will depend on the past experience between the college and the facility and on the qualifications of the preceptor involved. To maintain college control, two visits per internship will be normal. With good past experience and a highly qualified preceptor, one visit will be expected. Three visits may be needed if difficulties arise. The number of required visits is at the discretion of the college. A 50 percent tuition waiver, based on the summer tuition rate, applies to this class.

OFFICE ADMINISTRATION

OFAD 105. Keyboarding (G-2) 3 hours

This course is designed to introduce students to computerized keyboard and basic WordPerfect formatting techniques. Emphasis is on mastery of the keyboard, developing basic keyboarding skills, and formatting basic documents. Open only to students with no previous typing instruction. Not open to challenge examination. (Fall)

OFAD 115. Document Formatting (G-2) 3 hours

Prerequisite: Timed writing placement test required.

This course builds on the computerized keyboarding competencies students have developed. Emphasis is placed on increasing speed, improving accuracy, developing formatting skills, and learning production skills. Not open to challenge examination. (Fall)

OFAD 213. Information Resource Management 3 hours

Basic principles and procedures of storage and control of records involving a study of rules for alphabetic and numeric filing, with projects on methods of storage. An intensive study of automated filing, using computer software. Study of the criteria by which records are created, stored, used, and transferred. (Fall)

- OFAD 216. Business English** **3 hours**
Pre- or corequisite: ENGL 101.
 An intense study of basic grammar, punctuation, vocabulary, spelling, and word usage as necessary for the fundamentals of business communication. (Fall)
- OFAD 218. Business Math Calculations (G-2)** **2 hours**
 The use of the electronic calculator to solve basic business arithmetic operations, such as percentages, interest, discounts, fractions, merchandising, payroll, depreciation, use of credit, and understanding of the use of and graphic presentation of statistical business data. (Spring)
- OFAD 221. Office Transcription** **3 hours**
Prerequisites: ENGL 101 and OFAD 216.
 Development of skill in producing business documents, using cassette dictation. Focuses on the development of word usage and correct punctuation and document formats used in office transcription. (Spring)
- OFAD 223. Office Systems Technology (G-2)** **3 hours**
Prerequisite: OFAD 105 or equivalent
 An intensive study of a current word processing software such as Microsoft Word, WordPerfect 6.0, or Wordperfect 6.0 for Windows. Begins with the basic functions and extends to a wide variety of special and advanced features. (Spring)
- OFAD 228. Speedwriting Techniques (G-2)** **3 hours**
Prerequisites: OFAD 115, 216, 221, or permission of instructor.
 This course provides instruction in an abbreviated writing system based on letters of alphabet. Designed to provide a fast method of notetaking. Fundamental principles presented and applied, together with transcription practice. (Fall)
- OFAD 315. Business Communications (W)** **3 hours**
Prerequisites: ENGL 101-102.
 A study and application of the modern practices in oral and written business communications. Accuracy in grammar, spelling and punctuation, and the writing of well-knit sentences and clear paragraphs are taught as a means of effective expression in business writing. (Fall, Spring)
- OFAD 317. Office Administration Procedures** **3 hours**
Prerequisites: OFAD 213 and 223.
 A study of the integration of skills learned in previous office administration courses, together with emphasis on decision-making ability, judgment, business ethics, and initiative used in the profession. (Spring)
- OFAD 230/430. Office Administration Internship** **3 hours**
Pre- or corequisite: OFAD 317.
 Supervised on-campus work program in an administrative office of the college or related industries. Conferences scheduled with instructor during semester for guidance and evaluation. Arrangements to be made in advance with department instructor. Open only to A.S. senior/B.S. junior or senior Office Administration majors. (Fall, Spring)
- OFAD 245/345. Computer-Aided Publishing (G-2)** **3 hours**
This course is cross-listed with CPTC 245/345, Computer Science and Technology Department. A student may receive credit for this course from only one department.
 An introductory course in the use of the computer as an aid in publishing materials such as newsletters, flyers, programs. The course gives training in the preparation of camera-ready services using specialized desktop publishing software such as Aldus PageMaker and Xerox Ventura to do page layout. (Fall, Spring)

OFAD 295/495. Directed Study**1-3 hours**

Open only to majors in Office Administration.

Research studies related to the field of Office Administration are assigned according to the experience and interest of the student. Length of project determines credit. This course may be repeated for credit.

(C-2) (F-2) (G-2) (W) See pages 25-29 for explanation of General Education requirements.

CHEMISTRY

Chair: Steven Warren

Faculty: Wiley Austin, Sterling Sigsworth

Since we and everything we touch, eat, wear, or use are made of chemicals, the study of chemistry is an exciting and yet practical pursuit. A major in Chemistry can be your key to a rewarding and challenging career in a wide variety of areas such as the basic sciences or industrial research, pharmacology, toxicology, chemical engineering, forensic chemistry, chemistry education, medical and paramedical careers, as well as many business applications such as pharmaceutical and chemical sales, patent research and patent law, marketing and consulting, to name just a few.

The B.S. degree in Chemistry is recommended in preparation for graduate study leading to research oriented careers, professional applications of chemistry, or post-secondary education. The B.A. degree is the preferred degree for high-school teaching, premedicine, or pre-paramedical fields and possibly for some of the business applications.

ASSESSMENT

To aid the Chemistry Department in evaluating teaching effectiveness, nationally standardized tests prepared by the American Chemical Society for each of the various classes are administered at the end of each course. The test results are evaluated, and teaching procedures and methods are changed as needed. Failure on these standardized examinations may cause the student to repeat certain courses and/or jeopardize graduation as a Chemistry major.

Major—B.A. Chemistry (30 hours)

<u>Required Courses</u>	<u>Hours</u>	<u>Required Courses, cont.</u>	<u>Hours</u>
CHEM 151-152 General Chemistry	8	CHEM 321 Instrumental Analysis	4
CHEM 311-312 Organic Chemistry	6	CHEM 485 Chemistry Seminar	
CHEM 313-314 Organic Chemistry Lab	2	OR	1-2
CHEM 315 Analytical Chemistry	4	CHEM 497 Intro to Research	
Chemistry Electives	4-5		

CHEM 411-412, 413-414 Physical Chemistry and Physical Chemistry Lab may be substituted for CHEM 315, 321. The first course in Calculus is a cognate requirement. CPTR 131 Fundamentals of Programming I is strongly recommended. If CHEM 485 is not taken, then a speech class must be taken.

Sample Freshman Year Sequence B.A. Chemistry

<u>1st Semester</u>	<u>Hours</u>	<u>2nd Semester</u>	<u>Hours</u>
CHEM 151 General Chemistry	4	CHEM 152 General Chemistry	4
ENGL 101 College Composition	3	ENGL 102 College Composition	3
MATH 120 Precalculus Algebra	3	MATH 121 Precalculus Trigonometry	2
Area B, Religion	3	Area E, Biol/Phys/ Earth Science	3
Electives or Minor	3	Area G-3, Rec Skills	1
	16	Electives or Minor	2
			15

Major—B.S. Chemistry (40 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
CHEM 151-152	General Chemistry	8	CHEM 411-412	Physical Chemistry	6
CHEM 311-312	Organic Chemistry	6	CHEM 413-414	Physical Chem Lab	2
CHEM 313-314	Organic Chemistry Lab	2	CHEM 425	Advanced Organic Chem	3
CHEM 315	Analytical Chemistry	4	CHEM 485	Chemistry Seminar	1
CHEM 321	Instrumental Analysis	4	CHEM 497	Intro to Research	1-2
				Chemistry Electives	2-3

<u>Required Cognates</u>		<u>Hours</u>	<u>Required Cognates, cont.</u>		<u>Hours</u>
CPTR 131	Fund of Programming I	3	MATH 315	Diff Equations	3
MATH 181	Calculus I	3	PHYS 211-212	General Physics	6
MATH 182	Calculus II	4	PHYS 213-214	General Physics Lab	2

German or French is highly recommended. This course of study is designed for the professional chemist. Note that Physical Chemistry will be offered one year and Analytical and Instrumental Chemistries the following year. The student should plan accordingly.

Sample Freshman Year Sequence
B.S. Chemistry

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
CHEM 151	General Chemistry	4	CHEM 152	General Chemistry	4
CPTR 131	Funds of Prog I	3	ENGL 102	College Composition	3
ENGL 101	College Composition	3	MATH 121	Precalculus Trigonometry	2
MATH 120	Precalculus Algebra	3		Area B, Religion	3
	Area C, History	3		Area G-3, Rec Skills	1
		16		Area F, Behav/Fam/ Health Sci	3
					16

Major—B.A. Chemistry, Teacher Certification (30 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
CHEM 151-152	General Chemistry	8	CHEM 323	Biochemistry	4
CHEM 311-312	Organic Chemistry	6	CHEM 485	Chemistry Seminar	
CHEM 313-314	Organic Chemistry Lab	2		OR	1
CHEM 315	Analytical Chemistry	4	CHEM 497	Intro to Research	
CHEM 321	Instrumental Analysis	4		Chemistry Elective	1

<u>Required Cognates</u>		<u>Hours</u>	<u>Required Cognates, cont.</u>		<u>Hours</u>
ERSC 105	Earth Science	3	MATH 181	Calculus I	3
CPTR 120	Intro to Comp-Based Sys		PHYS 137	Intro to Physics	3
	OR	3	PHYS 155	Descriptive Astronomy	3
CPTR 131	Fund of Programming				

Students preparing for secondary teacher certification must include CHEM 323 in the major and must also take ERSC 105 and PHYS 137. See Education Department for listing of professional requirements (28 hours, listed on page 118) and general education requirements (44-47 hours).

Minor—Chemistry (18 Hours)

Eighteen hours, six of which must be upper division.

CHEMISTRY

CHEM 103. Pre-General Chemistry (E-2) 2 hours

Prerequisite: Successful completion of two years of high school algebra or MATH 090.

Basic concepts in chemistry and mathematics as needed to begin General Chemistry. Two hours of lecture each week. Does not apply on a major or minor in chemistry. Taught second semester only. (Spring)

CHEM 111-112. Survey of Chemistry (E-2) 3,3 hours

Prerequisites: A course in high school algebra. A minimum Mathematics ACT score of 16 or a minimum grade of "C" in MATH 080 are also required.

A survey course designed to familiarize the student with the basic principles of inorganic, organic and biochemistry. Three hours of lecture each week. Does not apply to a major or minor in Chemistry. (Fall, Spring, Summer)

CHEM 113-114. Survey of Chemistry Lab (E-2) 1,1 hours

Prerequisite: Previous or concurrent enrollment in CHEM 111-112.

Laboratory material designed to illustrate the material in lectures of CHEM 111-112. Two and one-half hours of laboratory each week. Does not apply on a major or minor in Chemistry. (Fall, Spring)

CHEM 151-152. General Chemistry (E-2) 4,4 hours

Prerequisites: High school chemistry and mathematics through Intermediate Algebra.

An introduction to the fundamental laws and accepted theories along with applications to the various fields of chemistry. Three hours of lecture and three hours of laboratory each week. (Fall, Spring)

CHEM 311-312. Organic Chemistry 3,3 hours

Prerequisite: Successful completion of CHEM 151-152 or its equivalent.

Many of the fundamental functional groups of both aliphatic and aromatic carbon compounds are studied. Attention is also given to spectroscopy, relative reactivities, reaction mechanisms and physical properties of these compounds. There are three hours of lecture each week. (Fall, Spring)

CHEM 313-314. Organic Chemistry Laboratory 1,1 hours

Prerequisite: Previous or concurrent enrollment in CHEM 311-312.

Experiments are done to acquaint the student with the basic organic chemistry laboratory techniques; melting points, boiling points, recrystallization, distillation, separations, etc. The exercises also illustrate reactions that are discussed in CHEM 311-312. Four hours of laboratory each week. (Fall, Spring)

CHEM 315. Analytical Chemistry 4 hours

Prerequisite: CHEM 151-152.

A study of equilibria as it applies to analytical chemistry. Techniques of determinations, sampling, handling of data, and the detailed chemistry involved is studied in terms of quantitative determinations. Three hours of lecture and three hours of laboratory each week. This class is offered alternate years. (Fall, odd years)

CHEM 321. Instrumental Analysis 4 hours

Prerequisite: CHEM 315.

A study of the theories, techniques and instruments involved in spectrometry, chromatography, electrochemistry and radiochemistry. Three lectures and one laboratory session per week. This class is offered alternate years. (Spring, even years)

CHEM 323. Biochemistry**4 hours****Prerequisite:** CHEM 311-312.

The compounds, mechanisms, and end products of the processes of life under normal and pathological conditions are studied. Also some of the techniques for studying these areas are considered. There are four hours of lecture each week and no lab. Up to two hours of credit can be counted toward a biology major. (Spring)

CHEM 411. Physical Chemistry I**3 hours****Prerequisites:** CHEM 151-152; CPTR 131 or 218; PHYS 211-212; MATH 315, or permission of instructor.

Gases, kinetic theory, thermodynamics and reaction kinetics are studied with the main emphasis on thermodynamics. There are three hours of lecture each week. This class is not open to students who have taken PHYS 411. This is taught alternate years. (Fall, even years)

CHEM 412. Physical Chemistry II**3 hours****Prerequisite:** PHYS 211-212; MATH 315; CPTR 131 or 218, or permission of instructor.

Areas to be studied include: Schroedinger's equation as an operator form of the energy equation; boundary-matching solutions for square wells and barriers; separation-of-variables method for the hydrogen atom; electron spin and the Pauli requirement for antisymmetric wave functions, with applications to states of light atoms; variation techniques for small atoms and molecules, Hueckel and LCAO methods, or other apparatus not including perturbation theory. There are three hours of lecture per week. This class is not open to students who have taken PHYS 412. This class is offered alternate years. (Spring, odd years)

CHEM 413, 414. Physical Chemistry Laboratory**1,1 hours****Prerequisites:** CHEM 315, also CHEM 411 and 412 must be taken concurrently or previously.

Experiments chosen to illustrate material in CHEM 411, 412. One laboratory period each week. This class is offered alternate school years. (Fall, even years; Spring, odd years)

CHEM 425. Advanced Organic Chemistry**3 hours****Prerequisite:** CHEM 312.

Compound types, reactions, and intermediates not considered in Organic Chemistry will be studied. Once a sufficient background has been established, an introduction to medicinal chemistry and synthesis of medicinal compounds will be studied. (Fall)

CHEM 485. Chemistry Seminar (W)**1 hour****Prerequisite:** CHEM 311-312.

Written and oral reports are made on specific topics in the chemistry field. To be taken in the junior or senior year. (Fall)

CHEM 295/495. Directed Study**1-3 hours****Prerequisite:** CHEM 151-152.

Designed for junior and senior students who wish to do private study or for a group of students who wish a special course on topics not taught under the regular class offerings. (Fall, Spring)

CHEM 497. Introduction to Research (W)**1-2 hours****Prerequisite:** 20 hours of chemistry or permission of the instructor.

Individual research under the direction of the members of the staff. Problems are assigned according to the experience and interest of the student. Prior to registration, two semesters before graduation, students are urged to contact all chemistry staff members with respect to choice of available problems. This should be taken no later than the first semester of the senior year. (Fall, Spring)

EDUCATION**EDUC 438. Curriculum and Content Methods/Chemistry****1 hour****Prerequisite:** Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performance, and the survey and evaluation of textbooks.

(E-2) (W) See pages 25-29 for explanation of General Education requirements.

COMPUTER SCIENCE AND TECHNOLOGY

Chair: Bradley Hyde

Interim Chair: Merritt MacLafferty

Faculty: John Durichek, Rick Halterman, Timothy D. Korson

Adjunct Faculty: John Beckett, Rodney Dixon

Computer Science deals with the design and programming of electronic digital computers. In today's society, it is rare that the average person goes through a day without using a computer in some way. Computers are used in cars, microwave ovens, VCR's, TV's and even washing machines. On Wall Street and at NASA, huge banks of computers display the current status. Almost everyone who writes now uses a word processor and even grade-school students are being taught computer usage.

With the growing use of computers has come a growing shortage of computer professionals. While some companies must hire untrained applicants, most are seeking employees with the training, skill, and knowledge of a graduate in Computer Science. Graduates from a computer science program find jobs in industry, health care, financial institutions, education, and research.

The student should choose his area of interest and select courses from computer science and other fields that will fit well with his intended career. Some job titles are: Programmer, Systems Programmer, Systems Analyst, Team Leader, Data Base Administrator, Data Processing Manager, Software Engineer, Applications Engineer, Training Specialist, and Technical Writer.

ASSESSMENT

In the spring of the senior year all BA, BS, and BBA students in computer science will be required to take a written two-hour departmental exam. The exam will cover general computer literacy, logic, set theory, boolean algebra, binary arithmetic, programming, data structures, and file processing. A detailed topics list will be published in January, and the exam will be given in mid-April.

Students are required to make 75% or above to qualify for graduation. Students making less than 75% may request an oral examination over the material. Those who fail will be required to take additional classwork before graduation. The results of this exam are used by the department staff to evaluate class offerings as well as program requirements.

CODE OF COMPUTER CONDUCT AT SOUTHERN COLLEGE

1. Users must use only those computer accounts which have been authorized for their use.
2. Users must use their computer accounts only for the purposes for which they were authorized, as arranged with the Information Services Department.
3. Users should minimize the impact of their work on the work of other users. It is the responsibility of the user to learn efficient means of utilizing the computer.

4. Users of campus computers must not make or use unauthorized copies of copyrighted software. Shareware may be freely copied, but students who continue to use it should register and pay the specified fee. Violation of copyright is a serious crime and penalties can be severe.
5. Planting "virus" programs or otherwise misusing campus computers in a way that might destroy the work others are doing is thoughtless vandalism and will be dealt with as any other destructive activity on campus.

PROGRAMS IN COMPUTER SCIENCE

Major—B.A. Computer Science (30 Hours)

<u>Required Courses</u>	<u>Hours</u>	<u>Required Courses, cont.</u>	<u>Hours</u>
CPTR 131 Fund of Programming I	3	CPTR 319 Data Base Mgt Systems	3
CPTR 132 Fund of Programming II	3	CPTR 324 Systems Analysis	
CPTR 217 COBOL Prog Language	3	OR	2
CPTR 219 Symbolic Assembler Lang	3	CPTR 325 Systems Design	
CPTR 280 Discrete Structures	3	CPTR 485 Computer Science Seminar	1
CPTR 317 Intro to File Processing	3	Upper Div Computer Electives	3
CPTR 318 Data Structures	3		
<u>Required Cognates</u>	<u>Hours</u>	<u>Required Cognates, cont.</u>	<u>Hours</u>
BUAD 334 Prin of Management	3	MATH 215 Statistics	3
MATH 120 Precalculus Algebra	3	SPCH 135 Intro to Public Speaking	3

Only 3 hours of CPTR 105 Intro to Word Processing, CPTR 106 Intro to Spreadsheets, CPTR 107 Intro to Data Base, CPTR 116 Spreadsheet Applications, and CPTR 117 Database applications now apply to a major in Computer Science.

Major—B.S. Computer Science (40 Hours)

<u>Required Courses</u>	<u>Hours</u>	<u>Required Courses, cont.</u>	<u>Hours</u>
CPTR 131 Fund of Programming I	3	CPTR 319 Data Base Mgt Systems	3
CPTR 132 Fund of Programming II	3	CPTR 324 Systems Analysis	
CPTR 217 COBOL Prog Language	3	OR	2
CPTR 219 Symbolic Assembler Lang	3	CPTR 325 Systems Design	
CPTR 280 Discrete Structures	3	CPTR 485 Computer Science Seminar	1
CPTR 317 Intro to File Processing	3	Computer Electives	13
CPTR 318 Data Structures	3	(6 must be upper division)	
<u>Required Cognates</u>	<u>Hours</u>	<u>Required Cognates, cont.</u>	<u>Hours</u>
BUAD 334 Prin of Management	3	MATH 215 Statistics	3
MATH 120 Precalculus Algebra	3	SPCH 135 Intro to Public Speaking	3

Only 3 hours of CPTR 105 Intro to Word Processing, CPTR 106 Intro to Spreadsheets, CPTR 107 Intro to Data Base, CPTR 116 Spreadsheet Applications, and CPTR 117 Database applications now apply to a major in Computer Science.

Sample Freshman Year Sequence
B.A. or B.S. Computer Science

1st Semester		Hours	2nd Semester		Hours
CPTR 131	Fund of Prog I	3	CPTR 132	Fund of Prog II	3
ENGL 101	College Composition	3	CPTR 219	Sym Assembler Lang	3
MATH 120	Precalculus Algebra		ENGL 102	College Composition	3
	OR	3		Area B, Religion	3
	MATH Elective			Math Elective	3
	Area C-1, History	3			<u>15</u>
	Area F, Behav/Fam/ Health Science	3			
		<u>15</u>			

Major—B.B.A. Computer Information Systems (65 Hours)

Required Courses		Hours	Required Courses, cont.		Hours
	BBA Core†	37	CPTR 318	Data Structures	3
CPTR 106	Intro to Spreadsheets	1	CPTR 319	Data Base Mgmt Sys	3
CPTR 116	Spreadsheet Applications	2	CPTR 324	Systems Analysis	2
CPTR 131-132	Fund of Programming	6	CPTR 325	Systems Design	2
CPTR 217	COBOL Program Lang	3	CPTR 326	Systems Management	2
CPTR 317	Intro to File Processing	3	CPTR 485	Computer Science Seminar	1
Required Cognates		Hours	Required Cognates, cont.		Hours
MATH 120	Precalculus Algebra	3	SPCH 135	Intro to Public Speaking	3
MATH 181	Calculus I	3		Psychology course	
MATH 215	Statistics	3			

†Core requirements BUAD 315 and BMKT 326 are not required for the Computer Information Systems major.

Sample Freshman Year Sequence
B.B.A. Computer Information Systems

1st Semester		Hours	2nd Semester		Hours
BUAD 126	Intro to Business	3	CPTR 106	Intro to Spreadsheet	1
CPTR 131	Fund of Prog I	3	CPTR 116	Spreadsheet Applications	2
ENGL 101	College Composition	3	CPTR 132	Fund of Prog II	3
	Area B-1, Religion	3	ENGL 102	College Composition	3
	Area C-1, History	3	SPCH 135	Intro to Public Speaking	3
	Area G-1, G-3, Skills	1		Area C-1, History	3
		<u>16</u>		Area G-1, G-3, Skills	1
					<u>18</u>

ASSOCIATE OF SCIENCE DEGREES

Major—A.S. Architectural Studies (25 Hours)

Required Courses		Hours	Required Courses, cont.		Hours
ART 104	Beginning Drawing I	2	CPTR 106	Intro to Spreadsheets	1
ART 110	Design Principles	3	CPTR 107	Intro to Data Base	1
CPTE 147	Intro to Arch and Inter	3	TECH 101	Technology Awareness	2
CPTE 245	Computer-Aided Publishing	3	TECH 145	Intro to Graphic Arts	3
CPTE 249	Computer-Aided Drafting	3	TECH 151	Architectural Drafting	3
CPTR 105	Intro to Word Processing	1			
Required Cognates		Hours	Required Cognates, cont.		Hours
BIOL 226	Environ Conservation	3	PSYC 224	Social Psychology	3
HIST 174-175	World Civilizations	6	SPCH 136	Interpersonal Communication	3
MATH 120	Precalculus Algebra	3	ERSC 105	Earth Science	
MATH 121	Precalculus Trigonometry	2		OR	3
PHYS 137	Intro to Physics	3	GEOG 204	World Geography	

**Sample Freshman Year Sequence
A.S. Architectural Studies**

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
ART 104	Beginning Drawing	2	ART 110	Design Principles	3
CPTR 105	Intro to Word Proc	1	CPTE 147	Intro to Arch and Interiors	3
CPTR 106	Intro to Spreadsheets	1	CPTE 251	CAD Architecture	3
CPTR 107	Intro to Data Base	1	ENGL 102	College Composition	3
ENGL 101	College Composition	3	MATH 121	Precalculus Trigonometry	2
MATH 120	Precalculus Algebra	3	RELB 125	Life and Teachings of Jesus	3
TECH 101	Tech Awareness	2			17
TECH 151	Architectural Drafting	3			
		16			

Major—A.S. Computer Applications (36 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
CPTE 245	Computer-Aided Publishing	3	CPTR 120	Intro to Computer-Based Sys	3
CPTE 249	Computer-Aided Drafting	3	CPTR 131	Fund of Programming I	3
CPTE 376	Automation and Robotics	4	CPTR 219	Symbolic Assembler Lang	3
CPTR 105	Intro to Word Processing	1	TECH 101	Technology Awareness	2
CPTR 106	Intro to Spreadsheets	1	TECH 145	Intro to Graphic Arts	3
CPTR 107	Intro to Data Base	1	TECH 149	Mechanical Drawing	2
CPTR 116	Spreadsheet Applications	2	TECH 183	Basic Electronics	3
CPTR 117	Database Applications	2			
<u>Required Cognates</u>		<u>Hours</u>			
MATH 120	Precalculus Algebra	3			
PHYS 137	Intro to Physics	3			
SPCH 135	Intro to Public Speaking	3			

The A.S. Degree in Computer Applications provides learning experiences in computer-aided drafting, computer numerically-controlled machines, robotics and automation, desktop publishing and other related computer applications.

**Sample Freshman Year Sequence
A.S. Computer Applications**

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
CPTR 105	Intro to Word Processing	1	CPTE 249	Computer-Aided Drafting	3
CPTR 120	Intro to Comp-Based Sys	3	CPTR 106	Intro to Spreadsheet	1
ENGL 101	College Composition	3	CPTR 116	Spreadsheet Application	2
MATH 120	Precalculus Algebra	3	ENGL 102	College Composition	3
TECH 149	Mechanical Drawing	2	TECH 101	Technology Awareness	2
	Recreation Skills	1	TECH 183	Basic Electronics	3
	Religion	3		Behavior/Fam Science	3
		16			17

Major—A.S. Computer Science (24 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
CPTR 131	Fund of Prog I	3	CPTR 317	Intro to File Proc	3
CPTR 132	Fund of Prog II	3	CPTR 318	Data Structures	3
CPTR 217	COBOL Prog Lang	3	CPTR 319	Data Base Mgt Sys	3
CPTR 219	Symbolic Assemb Lang	3			
<u>Required Cognates</u>		<u>Hours</u>	<u>Required Cognates, cont.</u>		<u>Hours</u>
ACCT 221-222	Prin of Accounting	3	BUAD 334	Prin of Mgmt	3
ACCT 321	Managerial Accounting	3	SPCH 135	Intro to Public Speaking	3

Sample Freshman Year Sequence
A.S. Computer Science

1st Semester		Hours	2nd Semester		Hours
ACCT 221	Prin of Accounting	3	ACCT 222	Prin of Accounting	3
CPTR 131	Fund of Prog I	3	CPTR 132	Fund of Prog II	3
ENGL 101	College Composition	3	CPTR 219	Symbolic Assemb Lang	3
MATH 090	Intermediate Algebra	3	MATH 120	Precalculus Algebra	3
	OR	3		Area B, Religion	3
	MATH Elective				15
	Area G-3, Rec Skills	1			
	Electives	3			
		16			

Minor—Computer Science (18 Hours)

Required Courses		Hours
CPTR 131	Fund of Programming I	3
CPTR 132	Fund of Programming II	3
CPTR 318	Data Structures	3

Of the remaining nine elective hours, three must be upper division. The minor is an excellent background for those whose profession is outside of data processing, but who will have to use the computer in their job, or work closely with DP personnel. The minor is also appropriate for any student who simply has an interest in computers.

COMPUTER TECHNOLOGY

CPTE 101. Technology Awareness **2 hours**
See TECH 101 for course description.

CPTE 147. Introduction to Architecture and Interiors **3 hours**
An examination of the scope and interrelationships of the professions of architecture and architectural interiors. The role of the designer in society is discussed with consideration of the opportunities for pursuing a rewarding career. Students are introduced to components of the faculty, each describing his or her teaching area. Information sources in architecture are outlined and methods of collecting, structuring and presenting data and ideas are included. Field trips are made to professional offices, manufacturers, and significant buildings and interiors. Open to all students.

CPTE 251. Computer-Aided Design in Architecture **3 hours**
Through tutorials, exercises, and projects the student gains working knowledge of the drafting and design capabilities of computer-aided design. Introduction to three-dimensional programs using DataCAD and other architectural programs.

CPTE 245/345. Computer-Aided Publishing (G-2) **3 hours**
An introductory course in the use of the computer as an aid in publishing materials such as newsletters, flyers, programs. The course gives training in the preparation of camera-ready documents without conventional paste-up and typesetting services using specialized desktop publishing software such as Aldus PageMaker and Xerox Ventura to do page layout. (Fall, Spring)

CPTE 249/349. Computer-Aided Drafting (G-2) **3 hours**
Prerequisite: TECH 149 or equivalent.
An introduction to Computer-Aided Drafting. A study of the computer as an aid in drawing and design as it applies to technical, mechanical, architectural and electrical fields using Auto Cad and Cad Key. Six periods of laboratory each week. Lecture as announced by the instructor. (Spring)

CPTE 376. Automation and Robotics 4 hours

Prerequisites: TECH 149, 183, 249/349 or equivalent.

Basic elements and principles of computer integrated manufacturing including terminology, computer hardware/software and interfacing, system integration, flexible manufacturing and robotic applications.

COMPUTER SCIENCE

CPTR 104. Introduction to PC-DOS Usage (G-2) 1 hour

This class is limited to students with no computer background or permission of the instructor. It is designed to introduce the student to the functions and features of the PC-DOS as a preparation for other computer application courses. Some general information about the hardware will be presented so that students may feel less intimidated about adding a new board to the computer or hooking up a new mouse. Students will learn how to format disks, manipulate files, and use many PC-DOS utilities. Does not apply toward a major or minor in computer science, nor does it satisfy the cognate requirements of other majors.

CPTR 105. Introduction to Word Processing (G-2) 1 hour

Prerequisite: A typing course or permission of instructor.

Word processing on a microcomputer including techniques for creating form letters, and using an electronic dictionary to check spelling. (Spring)

CPTR 106. Introduction to Spreadsheets (G-2) 1 hour

Prerequisite: MATH 090 or 103 or Math ACT of 22.

A course using microcomputer spreadsheet programs. The most commonly used functions will be described with simple lab problems.

CPTR 107. Introduction to Data Base (G-2) 1 hour

A course using microcomputers as electronic filing cabinets. Information retrieval, report generation, adding, deleting, and updating information. (Spring)

CPTR 116. Spreadsheet Applications (G-2) 2 hours

Prerequisite: CPTR 106.

The use of spreadsheet software on a microcomputer as an aid to financial planning and management. (Spring)

CPTR 117. Database Applications 2 hours

Prerequisite: CPTR 107

The use of database software including writing programs in the database language.

CPTR 120. Introduction to Computer-Based Systems (G-2) 3 hours

An overview of computer information systems. This survey course introduces computer hardware, software, procedures, systems, and human resources and explores their integration and application in business and other segments of society. The fundamentals of computer problem solving and programming in a higher-level programming language are discussed and applied. This course does not apply on a major in Computer Science. (Fall, Spring)

CPTR 131. Fundamentals of Programming I (G-2) 3 hours

Prerequisite: MATH 090, or MATH ACT of 22, or permission of instructor.

Control structures, data types, data representation, compiling, debugging, modularity, and standard programming algorithms are introduced, using a structured language. (Fall)

CPTR 132. Fundamentals of Programming II (G-2) 3 hours

Prerequisite: CPTR 131.

An introduction to software technology including elementary data structures for the development of reliable, modifiable programs. (Spring)

CPTR 217. COBOL Programming Language (G-2) 3 hours

Prerequisite: CPTR 131.

Semantics and syntax of COBOL. Emphasis is placed on business problems using the COBOL Language. (Fall)

CPTR 219. Symbolic Assembler Language 3 hours

Prerequisite: CPTR 131.

Computer structure, machine language, instruction execution, addressing techniques, and digital representation of data. Computer systems organization, symbolic coding and assembly systems and program segmentation and linkage. Systems and utility programs and programming techniques. Several computer projects to illustrate basic machine structure and programming techniques. (Spring)

CPTR 280. Discrete Structures 3 hours

Prerequisite: MATH 120;

Recommended: Familiarity with a programming language.

An examination of many of the mathematical concepts of particular use to computer scientists. The topics include set theory, relations, graph theory, combinatorics, Boolean algebra, digital logic and circuit design, proof techniques, and finite state automata. (Fall)

CPTR 317. Introduction to File Processing 3 hours

Prerequisite: CPTR 217.

Tape and disc operations. Includes coverage of sequential and random access files and processing techniques. Development of programs and systems of programs for batch and interactive environments. (Spring)

CPTR 318. Data Structures 3 hours

Prerequisites: CPTR 132 and MATH 120.

Stacks, recursion, queues, lists, trees, graphs, sorting and searching. (Fall)

CPTR 319. Data Base Management Systems 3 hours

Prerequisites: CPTR 318, 217; **Recommended:** CPTR 317.

Introduction to relational, hierarchical, and network approaches. Design, implementation, and management issues. (Spring)

CPTR 324. Systems Analysis 2 hours

Prerequisite: CPTR 317 or 319.

System development life cycle, system documentation through the use of both classical and structured tools and techniques for describing data flows, process flows, input and output necessary for defining logical system requirements. Structured techniques for dealing with complexity in the development of computer based information systems.

CPTR 325. Systems Design 2 hours

Prerequisite: CPTR 317 or 319.

Logical and physical system design. Hardware/Software selection and evaluation. Logical Data Base Design. Theories relating to module design, module coupling, and module strength. Techniques for reducing a system's complexity.

CPTR 326. Systems Management**2 hours****Prerequisite:** CPTR 317 or 319.

This course presents management principles unique to the data processing environment. Emphasis is placed on site preparation, security, software version control, and user services.

CPTR 365. Operating Systems**3 hours****Prerequisites:** CPTR 219, 132.

Computer systems components, main storage organization, instruction sets, data representation, task management and scheduling, secondary storage concepts, multi-processor systems, microprogramming, and array procedures. (Fall, odd years)

CPTR 366. Microcomputer Construction**3 hours****Prerequisites:** CPTR 219, 132.

A class with a large lab component. The student will assemble on a plug-board a complete working microcomputer. The class will cover the information necessary to design a microprocessor based computer with static or dynamic memory, ROM, interrupts, DMA, and various types of I/O. Reading manufacturers specifications and working within the timing parameters is an important part of the course. (Spring, even years—enrollment limited to 10 due to lab equipment.)

CPTR 376. Automation and Robotics**4 hours**

See CPTE 376 for course description.

CPTR 405. Organization of Programming Languages**3 hours****Prerequisites:** CPTR 217, 219.

Develops understanding of the organization of programming languages and their run time behavior. A comparative study, introducing the student to a variety of languages. (Spring, odd years)

CPTR 425. Computer Graphics**3 hours****Prerequisites:** CPTR 132; MATH 120 and 121; Recommended: MATH 181.

This course teaches the principles of generating graphical images on a computer with an emphasis on the underlying mathematical theory and its programming implementations. Topics include graphics primitives (points, lines, polygons, circles, ellipses), windowing techniques, clipping, 2-D and 3-D transformations, projections, 3-D viewing techniques, cubic interpolating and approximating curves (Bezier, B-spline, Catmull-Rom curves), bicubic 3-D surface patches, light and color, fractal curves and surfaces, hidden line and surface removal, depth sorting techniques, reflections, shading, surface mapping, ray tracing, animation techniques. (Fall, even years)

CPTR 485. Computer Science Seminar (W)**1 hour****Prerequisite:** CPTR 318 and 3 hours of CPTR credit numbered 319 or above.

Written and oral reports are made on specific topics treated in current computer science literature. Résumé writing, interviewing, application to graduate school, GRE testing, witnessing on the job and at graduate school are also discussed. (Spring)

CPTR 490. Topics in Computer Science**1-3 hours****Prerequisite:** Permission of Computer Science staff.

Topics selected from areas of computer science not covered in other courses. May be repeated with permission.

CPTR 295/495. Directed Study**1-3 hours****Prerequisite:** Consent of instructor and department chair.

Individual or group work adjusted to meet particular needs of computer science students. May be repeated for credit up to six hours.

(G-2) (W) See pages 25-29 for explanation of General Education requirements.

EDUCATION AND PSYCHOLOGY

Chair: George Babcock

Faculty: Fern Babcock, Alberto dos Santos, Robert Egbert, Jon Green, Leona Gulley, Carole Haynes, Helen Sauls, Jeanette Stepanske, Carl Swafford

Adjunct Faculty: John Baker, Ben Bandiola, LaVona Gillham, Kay Kuzma, Rita Roark, All K-12 staff serving as Cooperating Teachers

1995/96 Teacher Education Advisory Council: George Babcock, Chair; John Baker, Vern Biloff, Hamlet Canosa, Jim Epperson, Conrad Gill, Jon Green, Carole Haynes, Nathaniel Higgs, Gordon Klocko, Gerald Kovalski, Norwida Marshall, Barry Mahorney, Oster H. Paul, Alberto dos Santos, Helen Sauls, Jeanette Stepanske, Don L. Weatherall

1995/96 Teacher Education Council: George Babcock, Chair; John Baker, Orville Bignall, Marcia Brashears, Delton Chen, Ron du Preez, Ted Evans, LaVona Gillham, Jon Green, Floyd Greenleaf, Jan Haluska, Carole Haynes, Al Morford, Debbie Perdue, John Perumal, Dennis Pettibone, Mary Jayne Ries, Marvin Robertson, Kermise Rowe, Helen Sauls, Jeanette Stepanske, Carl Swafford, Gordon Swanson, Matt Wilson, William Wohlers

DEGREES OFFERED

BACHELOR OF ARTS DEGREE IN PSYCHOLOGY

Psychology has been a stand-alone major at Southern College for more than a decade, with graduates later pursuing study in such fields as marriage and family counseling, community and school counseling, school psychology, counseling and clinical psychology, and industrial and experimental psychology—as well as business, law, dentistry, and medicine. Statistical and simulation computer software enhance student research practice and training.

At Southern College the psychology major is considered preprofessional and serves as preparation for later study at the master's and doctoral degree levels. In order to improve their chances for admission to graduate programs, students will want to (a) achieve well in psychology and general education courses, (b) take as many psychology electives as possible, along with statistics and computer science, (c) obtain a competitive score on graduate admission tests (usually the GRE) taken during the fall of the senior year, and (d) apply to 10 or more specific schools for graduate study.

ASSESSMENT

The assessment of senior psychology majors (including education students who major in psychology for teacher licensure) takes place during their final academic year. Students are required to take the MMPI II test, prepare a portfolio, write a position paper, and have an oral interview by the psychology or psychology and education faculty. This senior assessment must be completed to have departmental recommendation for graduation. The final assessment is graded on an Honor, Pass, or Fail basis. Results of student assessment are evaluated by the faculty with a view to changing course content as needed. Students may obtain from the main Education/Psychology office a more detailed listing of requirements entitled "Senior Psychology Assessment."

Major—B.A. Psychology (32 Hours)

<u>Required Courses</u>	<u>Hours</u>	<u>Required Courses</u>	<u>Hours</u>
PSYC 124 Intro to Psychology	3	PSYC 415 Hist & Sys of Psychology	3
PSYC 128 Developmental Psychology	3	PSYC 485 Psychology Practicum	1
PSYC 315 Abnormal Psychology	3	PSYC 490 Psychology Seminar	1
PSYC 346 Intro to Personality Theories	3	PSYC 497 Research Design & Stat II	3
PSYC 357 Psychological Testing	3	PSYC Electives	6
PSYC 377 Fund of Counseling	3		

For students interested in nonclinical work, six hours of electives may be selected from the following courses:

PSYC 224 Social Psychology	3	PSYC 384 Experimental Psychology	3
PSYC 233 Human Sexuality	3	PSYC 432 Industrial/Org Psychology	3
PSYC 326 Physiological Psychology	3	PSYC 465 Topics in Psychology	3
PSYC 349 Aging and Society	3	PSYC 495 Directed Study	1
PSYC 387 Comparative Psychology	3		

For students interested in clinical work, six hours of electives may be selected from the following courses:

PSYC 224 Social Psychology	3	PSYC 465 Topics in Psychology	3
PSYC 233 Human Sexuality	3	PSYC 479 Family Counseling	3
PSYC 422 Behavior Strat for Adolescents	2	PSYC 495 Directed Study	1
PSYC 460 Group Processes	3		

<u>Required Cognates</u>	<u>Hours</u>
BIOL Biology Electives	3
CPTR Computer Electives	3
PSYC 297 Research Design & Stat I	3

Sample Freshman Year Sequence
B.A. Psychology

<u>1st Semester</u>	<u>Hours</u>	<u>2nd Semester</u>	<u>Hours</u>
ENGL 101 College Composition	3	CPTR 105 Intro to Word Processing	1
HIST 155 Amer Hist & Institutions	3	CPTR 106 Intro to Spreadsheets	1
OR		CPTR 107 Intro to Data Base	1
HIST 174 World Civilizations	3	ENGL 102 College Composition	3
MATH 103 Survey of Math	3	HIST 155 Amer Hist & Institutions	3
PEAC Area G-3, Elective	1	OR	
PSYC 124 Intro to Psychology	3	HIST 175 World Civilizations	3
RELB 125 Life & Teachings	3	PSYC 128 Developmental Psychology	3
	16	Elective	3
			15

Minor—Psychology (18 Hours)

<u>Required Courses</u>	<u>Hours</u>
PSYC 124 Intro to Psychology	3
PSYC 128 Developmental Psychology	3
PSYC Electives	12
(6 hours must be upper division)	

DEGREES FOR TEACHING LICENSURE

Major—B. A. Psychology (32 Hours) Leading to Licensure K-8

Major	32
Cognates	4
General Education	56-62
Professional Education	34
Total	126-132

While this degree program is open to anyone, it is required for all those who desire to teach Kindergarten and/or lower elementary grades.

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses</u>		<u>Hours</u>
PSYC 124	Intro to Psychology	3	PSYC 336	Lang Acquisition & Dev	2
PSYC 128	Developmental Psychology	3	PSYC 356	Classroom Assessment	2
PSYC 217	Psychology Found of Ed	2	PSYC 377	Fund of Counseling	3
PSYC 230	Prin & App of Cog Dev	2	PSYC 421	Behavior Management	2
PSYC 240	Psyc of Excep Child & Youth	2	PSYC 485	Psychology Practicum	1
PSYC 297	Research Design & Stat I	3	PSYC 490	Psychology Seminar	1
PSYC 315	Abnormal Psychology	3	PSYC 497	Research Design & Stat II	3

<u>Required Cognates</u>		<u>Hours</u>
PETH 463	Phys Ed in Elem School	2
LIBR 325	Lib Materials for Children	2

General Education (56-62 Hours)

AREA A	ENGL 101, 102; MATH 103	9
AREA B	RELB, 3 hours; RELT 138, 255; U.D. RELB or RELT, 3 hrs.	12
AREA C	HIST 154, 175, 356; GEOG 204	12
AREA D	ART 230; MUED 231; SPCH 135; ENGL 216, Foreign Lang. 0-6	10-16
AREA E	BIOL 103; CHEM 111; ERSC 105	9
AREA F	HLED 173	2
AREA G	PEAC 125; PEAC elective, 1 hr	2

Professional Education (34 Hours)

EDUC 135	Intro to Education	2	EDUC 455	Bible Methods	2
EDUC 250	Technology in Education	2	EDUC 456	Language Arts Methods	2
EDUC 325	Philosophy of Christian Ed	2	EDUC 457	Social Studies Methods	2
EDUC 332	Teaching of Reading	3	EDUC 461	Pract in Multicultural Ed	1
EDUC 426	Kindergarten Methods	2	EDUC 463	Small Schools Seminar	2
EDUC 453	Mathematics Methods	2	EDUC 466	Enhanced Student Tchg K-8	10
EDUC 454	Science & Health Methods	2			

Sample Freshman Year Sequence

B.A. Psychology Leading to Licensure K-8

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
ENGL 101	College Composition	3	BIOL 103	Prin of Biology	3
MATH 103	Survey of Math	3	EDUC 135	Intro to Education	2
PEAC 125	Conditioning	1	ENGL 102	College Composition	3
PSYC 124	Intro to Psychology	3	HIST 175	World Civilizations II	3
RELB 125	Life & Teachings of Jesus	3	HLED 173	Health and Life	2
	*Area D-1, Foreign Lang	3		*Area D-1, Foreign Lang	3
		16			16

*A student who has 2 units of high school foreign language can complete this degree program in 126 semester hours.

Major—B.A. Social Science (33 Hours)**Leading to Licensure 1-8**

(With Language Arts Emphasis)

Major	33
Cognates	2
General Education	47-53
Professional Education	40
Elective	2-0
Total	124-128

This degree program is required for those who desire to teach the middle and upper elementary grades and who desire a Language Arts emphasis. However, the program is open to anyone.

Required Courses		Hours	Required Courses		Hours
ENGL 205	Grammar & Ling for Tchrs	3	HIST 356	Natives and Strangers	3
ENGL 216	Approaches to Literature	3	LIBR 325	Libr Materials for Children	2
ENGL 313	Expository Writing		PSYC 124	Intro to Psychology	3
	OR	3	PSYC 128	Developmental Psychology	3
ENGL 314	Creative Writing		PSYC 230	Princ & App of Cog Dev	2
ENGL U.D.	Lit Elective (upper div - W)	3	PSYC 297	Research Design & Stat I	3
HIST 154	American Hist & Inst	3	PSYC 336	Lang Acq & Dev	2

Required Cognates		Hours
PETH 463	Phys Ed in Elem School	2

General Education (47-53 Hours)

AREA A	ENGL 101, 102; MATH 103	9
AREA B	RELB, 3 hours; RELT 138, 255; U.D. RELB or RELT, 3 hours	12
AREA C	HIST 175; GEOG 204	6
AREA D	ART 230; MUED 231; SPCH 135; Foreign Lang. 0-6	7-13
AREA E	BIOL 103; CHEM 111; ERSC 105	9
AREA F	HLED 173	2
AREA G	PEAC 125, PEAC course, 1 hr.	2

Professional Education (40 Hours)

EDUC 135	Intro to Education	2	EDUC 453	Mathematics Methods	2
EDUC 217	Psych Foundations of Ed	2	EDUC 454	Science & Health Methods	2
EDUC 240	Ed for Exceptional Children	2	EDUC 455	Bible Methods	2
EDUC 250	Technology in Education	2	EDUC 456	Language Arts Methods	2
EDUC 325	Philosophy of Christian Ed	2	EDUC 457	Social Studies Methods	2
EDUC 332	Teaching of Reading	3	EDUC 461	Pract in Multicultural Ed	1
EDUC 356	Classroom Assessment	2	EDUC 463	Small Schools Seminar	2
EDUC 421	Behavior Management	2	EDUC 467	Enhanced Student Tchg 1-8	10
				Electives	2

Sample Freshman Year Sequence**B.A. in Social Science**

Leading to Licensure 1-8
(Language Arts Emphasis)

1st Semester		Hours	2nd Semester		Hours
ENGL 101	College Composition	3	BIOL 103	Prin of Biology	3
MATH 103	Survey of Math	3	EDUC 135	Intro to Education	2
PEAC 125	Conditioning	1	ENGL 102	College Composition	3
PSYC 124	Intro to Psychology	3	HIST 175	World Civilizations II	3
RELT 125	Life & Tchgs of Jesus	3	HLED 173	Health and Life	2
	*Area D-1, Foreign Lang	3		*Area D-1, Foreign Lang	3
		16			16

*A student who has 2 units of high school foreign language may take 2 hours of electives in place of additional foreign language. Some of the hours listed for the summer session may be taken during the time when foreign language would normally be taken.

Major—B.S. Science and Math Studies (40 Hours)
Leading to Licensure 1-8

Major	40
Cognate	2
General Education	44
Professional Education	38
Total	124

This degree program is required for those who desire to teach the middle and upper elementary grades and who desire a Science/Math emphasis. However, the program is open to anyone.

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses</u>		<u>Hours</u>
BIOL 103	Principles of Biol	3	MATH 121	Precalculus Trigonometry	2
BIOL 424	Issues of Nat Sci/Religion	3	MATH 475	Mathematics in the Sciences	1
CHEM 111	Survey of Chemistry	3	PHYS 137	Intro to Physics	3
ERSC 105	Earth Science	3	PSYC 230	Prin & Appls Cog Dev	2
HIST 356	Natives and Strangers	3	PSYC 240	Psych of Excep Children & Youth	2
LIBR 325	Library Materials for Children	2	PSYC 297	Research Design & Stat I	3
MATH 103	Survey of Mathematics	3	PSYC 356	Classroom Assessment	2
MATH 120	Precalculus Algebra	3	PSYC 421	Behavior Management	2

<u>Required Cognate</u>	<u>Hours</u>
PETH 463 PE. in the Elementary School	2

General Education (44 Hours)

AREA A	ENGL 101, 102	6
AREA B	RELB, 3 hours; RELT 138, 255; U.D. RELB or RELT, 3 hrs	12
AREA C	HIST 154, 175; GEOG 204	9
AREA D	ART 230; MUED 231; SPCH 135; ENGL 216	10
AREA E	Included in the major	0
AREA F	HLED 173; PSYC 128	5
AREA G	PEAC 125, PEAC elective (1 hour)	2

Professional Education

EDUC 135	Intro to Education	2	EDUC 454	Science & Health Methods	2
EDUC 217	Psych Foundations of Ed	2	EDUC 455	Bible Methods	2
EDUC 250	Technology in Education	2	EDUC 456	Language Arts Methods	2
EDUC 299	Outdoor Ministries	2	EDUC 457	Social Studies Methods	2
EDUC 325	Phil of Christian Ed	2	EDUC 461	Pract in Multicultural Ed	1
EDUC 332	Teaching of Reading	3	EDUC 463	Small Schools Seminar	2
EDUC 364	Environmental Ed	2	EDUC 467	Enhanced Student Tchg 1-8	10
EDUC 453	Mathematics Methods	2			

Sample Freshman Year Sequence
B.S. Science and Math Studies
 Leading to Licensure 1-8

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
ENGL 101	College Composition	3	BIOL 103	Prin of Biology	3
HIST 154	American Hist & Institutions	3	EDUC 135	Intro to Education	2
MATH 103	Survey of Math	3	ENGL 102	College Composition	3
PEAC 125	Conditioning	1	HIST 175	World Civilizations II	3
PSYC 128	Developmental Psych	3	HLED 173	Health and Life	2
RELB 125	Life & Tchgs of Jesus	3	RELT 138	Adventist Heritage	3
		16			16

Minor—Education (18 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses</u>	
EDUC 135	Intro to Education	2	EDUC 240	Ed for Excep Childr & Youth 2
EDUC 217	Psych Foundations of Ed	2	EDUC	Electives 11
				(6 hours must be upper division)

This minor does not automatically lead to either elementary or secondary certification, both of which require a baccalaureate degree and completion of professional education courses for licensure. See explanations beginning on page 118.

TEACHER EDUCATION PROGRAMS

Southern College has approved teacher certification programs at four levels:

K-8

B.A. in Psychology Leading to Licensure

1-8

B.A. in Social Science Leading to Licensure
(Language Arts Emphasis)

B.S. in Science and Math Studies Leading to Licensure

K-12

Health/Physical Education

Music Education

7-12

Biology Education

Chemistry Education

English Education

History Education

Mathematics Education

Physics Education

Religious Education

ASSESSMENT

Assessment of senior Education majors takes place during their **full semester of student teaching**. It involves continuous monitoring of the student's classroom performance in both verbal and written feedback. Senior assessment consists of two phases.

Phase One, Formative Evaluation, consists of continual daily monitoring and feedback. The cooperating teacher provides informal conferences and a one-hour weekly formal conference with anecdotal records. The Southern College Formative Evaluation Form is completed by the college supervisor and the cooperating teacher.

Phase Two, Summative Evaluation, is completed by both the cooperating teacher and the college supervisor. The instrument used to record the student's skills and behaviors is the Southern College Summative Evaluation Form. The student teacher is also evaluated by his/her students when they complete the Student Evaluation of the Student Teacher. A self-evaluation is completed by the student through a videotaped lesson. The student and the college supervisor critique his/her videotaped performance.

The final letter grade for the student's performance is decided by the Education Faculty. Failure to complete student teaching with a satisfactory grade of C or above results in students being reassigned for an additional practicum.

Graduate follow-up is carried out through the Southern College Teacher Education Evaluation instrument completed by the first-year teacher. The Supervisor Evaluation of Southern College Graduates is completed by the student's employer. Feedback from these instruments is used by the Education Department staff to make necessary program changes.

In addition to the above, education students obtaining a psychology degree must fulfill the assessment procedures listed on page 109.

Philosophy and Objectives

The Department of Education and Psychology is the unit duly authorized to prepare teachers who meet certification requirements for public, church related, and other private elementary and secondary schools.

The unit subscribes to the philosophy that man was created in the image of God but as a result of willful disobedience sin has marred his God-given attributes and divine likeness. This philosophy recognizes that the object of education is also the object of redemption — to restore in man the image of his maker and bring him back to the perfection in which he was created. Thus the work of redemption is also the work of education, involving the development of the whole person — physical, mental, spiritual, and social.

The teacher education programs in the unit are founded upon the basic assumption that there is a body of information, research, and practice that make up the knowledge base for the teaching profession and that acquisition of this knowledge is a significant part of the teacher's preparation. The unit further confirms the belief that a teacher should be a good example in health, intellect, and character. This program of teacher education is guided by the following statement of mission:

Statement of Mission

The mission of the Department of Education and Psychology at Southern College of Seventh-day Adventists is to prepare, primarily for the Seventh-day Adventist school system, professional educators who can function effectively in a culturally pluralistic society and who are dedicated to assisting students in reaching their maximum potential in service to God and man.

Objectives of the Teacher Education Program

The teacher education program at Southern College of Seventh-day Adventists is designed to help the teacher candidate develop personal values and acquire the knowledge, skills, and competencies needed to function effectively in the teacher's role as a person, a facilitator of learning, a practitioner, and a professional.

The Teacher As a Person

To promote the personal development of the prospective teacher (which includes physical, aesthetic, intellectual, and moral values) by guidance and advisement through general education which results in:

1. an understanding, appreciation, and enjoyment of man's creative activity in the humanities, social, and natural sciences;
2. a development of personal values that recognize our pluralistic cultural heritage as well as individual worth and integrity and brotherhood of mankind under God;
3. the ability to communicate ideas clearly and effectively in reading, writing, speaking, and listening;
4. an appreciation of the value of health and the importance of health practices in home and family life.

The Teacher As a Facilitator of Learning

To provide a set of educational experiences that will enable the teacher candidate to master the skills in:

5. planning curriculum encounters with learners with appropriate materials and instructional strategies;
6. identifying learning objectives at appropriate levels;
7. using diagnostic and evaluation strategies;
8. handling classroom management and reinforcement strategies;
9. applying principles of human growth and development and theories of learning to classroom situations;
10. integrating faith and learning, along with emphasizing character development;
11. recognizing and encouraging creativity and the maximum possible development of student abilities.

The Teacher As a Practitioner

To maintain a learning environment that is conducive to acquiring the knowledge, skills and competencies that characterize successful practitioners through:

12. enhancement of positive attitude toward self, intellectual curiosity, and independent critical thinking;
13. continuing experimentation and innovation with new pedagogical practices and basic tools of learning;
14. utilization of translatable research;
15. on-campus instruction and off-campus field experiences in public and private schools.

The Teacher As a Professional

To provide a social-emotional climate and opportunities for the development of leadership skills while encouraging attitudes and experiences that foster professional growth by:

16. participating actively in the campus student education association;
17. becoming familiar with the professional organizations and their journals and the nature of the articles reported in them;
18. keeping abreast with developments in education, school reform and legislation;
19. participating in activities that enhance church, home, and community relationships;
20. demonstrating a genuine interest and concern for the physical, mental, social, and spiritual development of the learner.

Advisement

The major goal of the advisement process is to orient the teacher candidate with the total teacher education program, with major emphasis on its three components, namely, general education, professional education, and specialty studies. This is accomplished by the academic adviser as s/he interacts with his/her advisees during advisement sessions.

ADMISSION PROCEDURES

Admission to Southern College does not automatically enroll the student into teacher education. There are three stages that students must go through to be fully accepted in the teacher education program.

A. Initial Admission to the Teacher Education Program

Each student accepted at Southern College who indicated that teaching is his/her professional objective is assigned an educational program adviser by the Chair of the Department of Education and Psychology in cooperation with the advisement coordinator in the Records Office. The advisers assist in planning a student's academic program each year and guide their advisees through the stages of the Teacher Education Program. Advisers and advisees should work closely to follow the professional sequence of courses. Students assume responsibility for making necessary applications, meeting the requirements, and other relevant deadlines.

The first semester of the sophomore year, but not later than the second semester of the sophomore year, the student should file a formal application for initial admission to the Teacher Education Program. Application forms may be obtained from the department secretary in Summerour Hall. Transfer students wishing to enter the Teacher Education Program should file an application after the first year in residence. Upon application, a file is set up for each applicant containing relevant information to the student's candidacy. To be initially admitted, all the following criteria must be met:

1. Be in residence at the College.
2. Submit an autobiography in your own handwriting containing anecdotal information on why you decided to pursue a career in teaching.
3. Have an overall grade point average of 2.50.
4. Have completed ENGL 101-102 with a minimum grade of C-.
5. Show evidence of physical, mental, and moral fitness.
6. Have successfully completed EDUC 135 with a minimum grade of C-.
7. Have passed the PRAXIS I (Pre-Professional Skills Test) which is the entrance competency test required by the State of Tennessee. An enhanced ACT composite score of 22 or above will EXEMPT the student from the Pre-Professional Skills Test.
8. Have taken the 16 Personality Factor Test.
9. Have obtained recommendations from the Vice President of Student Services and the student's academic adviser.

Applicants meeting the above criteria are recommended by the Education faculty to the Teacher Education Council. The student will be informed in writing as to the status of the application for admission following the action of the Teacher Education Council.

B. Candidacy and Retention in Teacher Education

After the applicant has been admitted to the Teacher Education Program, his/her progress will be reviewed by the Candidacy Committee, consisting of the adviser, a departmental representative, and one elementary or secondary teacher. As a teacher candidate, the applicant will be given an opportunity to interact with the Candidacy Committee in a non-threatening atmosphere. During the interview the candidate can strengthen his/her commitment to teaching or express his/her concerns and questions about the teaching profession.

Retention in the teacher education program is contingent on successful completion of courses attempted and maintenance of the academic standard required for initial admission to the program. Teacher candidates are expected to maintain consistent personal representation of the standards and objectives of Southern College and the teacher education program.

C. Authorization to do Student Teaching

After acceptance into the Teacher Education Program and before the first semester of the senior year, the teacher candidate must file a formal application with the faculty of the Department of Education and Psychology for authorization to do student teaching. Application forms may be obtained from the department secretary in Summerour Hall. A late application may delay the student teaching experience. Student teaching is regarded as the culminating experience of the Teacher Education Program.

The following criteria are considered for each applicant:

1. Completion of all professional education courses
2. Cumulative GPA of 2.50
 - Major Studies GPA of 2.50
 - Professional Education GPA of 2.50
3. Evidence of good physical and mental health
4. Adherence to standards and objectives of Southern College and the Teacher Education Council
5. Formal application for student teaching at least one semester in advance
6. Recommended by the Education faculty
7. Approval of the Teacher Education Council

Teacher candidates who meet the above criteria are recommended by the Education and Psychology faculty to the Teacher Education Council. Candidates are informed in writing as to the status of their application following the action of the Teacher Education Council.

APPEAL PROCEDURES

Criteria and standards for admission to teacher education are explicit, but allow for second chance attempts. Courses may be repeated to raise GPA or students may follow the Grievance Procedures found under Academic Policies (page 39). Also, students who do not meet all the criteria required to do Student Teaching may appeal to the Appeals Committee. The applicant who has to take this alternative route will be evaluated on the bases of eminence and outstanding strengths in several other criteria rather than minimal meeting of those criteria. The Appeals Committee makes recommendation to

the Teacher Education Council who determines the final action. Any applicant who determines to follow this alternative policy must seek counsel from the Chair of the Department of Education and Psychology.

TEACHER LICENSURE

Licensure and certification are synonymous terms for the process of granting legal authorization to teach in the public or private elementary or secondary schools of a state or of the Seventh-day Adventist Church based on meeting predetermined qualifications. Certification has been established to give professional status to qualified teachers and to assure school boards and parents that the teacher is well prepared.

WHO CAN OBTAIN CERTIFICATION?

Every student who successfully completes the requirements for teaching in the elementary or secondary school and graduates from Southern College will receive recommendation for certification based upon the following criteria:

- A. Successful completion of student teaching assignment(s)
- B. Satisfactory completion of all credential requirements
- C. Recommendation of major departments
- D. Satisfactory scores on the core battery and appropriate specialty area of the PRAXIS National Teacher Examinations

Certification is not automatic. The eligible candidate must make the necessary application to the appropriate union conference for denominational certification and to the specific state department of education where the candidate expects to teach. Information regarding certification is available through the Southern College certification officer. Since teacher certification regulations are always in the process of change, graduating teacher education candidates are urged to make their applications for certification immediately. If the candidate does not make application within two years for denominational certification, or within three years for Tennessee State certification, s/he will have to take additional courses before certification can be issued.

WHAT CERTIFICATES MAY BE OBTAINED?

- A. Teacher's Certificate (Tennessee)
A certificate is issued on the basis of a minimum of a Bachelor's Degree with a major in at least one subject teaching field and the completion of an approved teacher education program.
- B. Basic Certificate (SDA denominational)
Required by the Department of Education of the North American Division of Seventh-day Adventists. This three-year denominational certificate is issued on the basis of completing the following courses in addition to the above requirements:

RELT 255	Christian Beliefs	3 hours
RELT 138	Adventist Heritage	3 hours
RELB	Biblical Studies	3 hours
REL	Upper division elective	3 hours
HLED 173	Health and Life	2 hours

REQUIREMENTS FOR CERTIFICATION

Candidates for state certification must complete the appropriate teacher preparation curriculum. This consists of three components: general education, professional education, and major studies.

A. General Education:

This component represents that portion of the total teacher education program designed to foster the development of those competencies that are basic to all life's responsibilities and provide intellectual foundation in the liberal arts. Students pursuing a teacher education curriculum must work closely with their advisers for guidance in the selection of general education courses that are appropriate to their individual needs. Relevant courses are listed in this catalog under the seven main areas of the general education requirements, pages 25-29.

B. Professional Education:

Elementary: The courses for the three elementary programs are included with the degree requirements listed on pages 109-111 of this catalog.

Secondary: The following courses are required for secondary teaching certification. In order to be eligible for certification, students must have a minimum grade point average of 2.50 in the major, professional education, and cumulative.

EDUC 135	Intro to Education	2 hours
EDUC 217	Psychological Foundations of Education	2 hours
EDUC 240	Education for Exceptional Children and Youth	2 hours
EDUC 250	Technology in Education	2 hours
EDUC 325	Philosophy of Christian Education	2 hours
EDUC 356	Classroom Assessment	2 hours
EDUC 422	Behavior Management for Adolescents	2 hours
EDUC 434	Reading in Content — Secondary	2 hours
EDUC 437	Curriculum and General Methods, Grades 7-12	1 hour
EDUC 438	Curriculum and Content Methods, Grades 7-12	1 hour
EDUC 468	Enhanced Student Teaching 7-12 or	
EDUC 469	Enhanced Student Teaching K-12	<u>10 hours</u>
TOTAL		28 hours

C. Major Studies:

Major studies requirements: Preparation for teaching in the elementary school requires a B.A. in Psychology leading to licensure K-8, B.A. in Social Science leading to licensure 1-8, or a B.S. in Science and Math Studies leading to licensure 1-8. See listing of course sequence on pages 109-111 of this bulletin.

The following departments offer majors that can be combined with professional education courses resulting in licensure to teach:

Biology	History
Chemistry	Mathematics
Education & Psychology	Music
English	Physics
Health/Physical Education	Religion

Students are to complete the degree requirements as specified by their chosen major plus the professional education courses as listed under B above.

- D. Miscellaneous Information Relative to Teacher Training:
1. Because of time commitments during the student teaching experience, no additional courses may be taken. The Education faculty will endeavor to provide the opportunity for student teachers to teach in off-campus student teaching centers. It is expected that any student entering student teaching will have completed all other courses.
 2. Correspondence credit will be accepted to the extent of one-fourth of the credit required for the certificate provided that no more than four semester hours in education are applied on the professional education requirement. If personal circumstances demand a correspondence course, a petition must be filed with the Department of Education and Psychology and its approval obtained before registering for the course. The course must be completed and the grade filed in the Records Office before student teaching is begun.
 3. A major is not always required for additional endorsements. A minor may be acceptable as a second field for SDA certification.
 4. Students should contact the Department of Education and Psychology for information on specific requirements in the area(s) of endorsement sought.

PROGRAM FOR ELEMENTARY ENDORSEMENT FOR INDIVIDUALS MEETING REQUIREMENTS FOR SECONDARY CERTIFICATION

Twenty semester hours selected from the courses listed below are required. A minimum of 12 semester hours from these courses must be completed after the date the applicant became eligible for the original certificate endorsed in a subject area in grades 7-12 or in a subject area in grades K-12. Grades must be C- or better.

- A. Required Courses:
- | | | |
|----------|------------------------------|---|
| EDUC 332 | Teaching of Reading | 3 |
| EDUC 453 | Mathematics Methods | 2 |
| EDUC 455 | Bible Methods | 2 |
| EDUC 456 | Language Arts Methods | 2 |
| EDUC 457 | Social Studies Methods | 2 |
- B. Six semester hours to include three of the following four areas:
- | | | |
|----------|---|---|
| ART 230 | Intro to Art Experiences | 2 |
| EDUC 454 | Science and Health Methods in Elem School | 2 |
| MUED 231 | Music and Movement | 2 |
| PETH 463 | Physical Education in the Elementary School | 2 |
- C. Two semester hours must be in Education of Exceptional Children if not previously successfully completed. If Education of Exceptional Children or any of the above required courses in Section A or Section B have been previously completed, the remaining semester hours must be taken from the following courses:
- a. Library Materials for Children
 - b. Health
 - c. Geography
- D. Two to three semester hours of student teaching.

**PROGRAMS FOR SECONDARY ENDORSEMENT
FOR INDIVIDUALS MEETING REQUIREMENTS
FOR ELEMENTARY EDUCATION CERTIFICATION**

The student must take ten hours of credit after the date the original certificate was earned. Six semester hours of the ten must be in specialized professional education appropriate to grades 7-12 and must include a minimum of 2 semester hours of appropriate methods. The credit for at least one area of endorsement in grades 7-12 may have been earned at any time prior to the application for adding the endorsement. **Grades must be C- or better.** The student must also fulfill the following:

1. Meet the State of Tennessee requirements for endorsement in at least one teaching field (this will vary from 18 to 51 hours).
2. A minimum of six semester hours of professional education including:
 - A. EDUC 437 or EDUC 438.
 - B. Any other courses designated by the Department of Education and Psychology.
3. Four semester hours of electives.

EDUCATION**EDUC 134. Principles of Christian Education 2 hours**

An overview of the purposes, administrative organizations and operations of school systems, identified as Christian in purpose, with particular emphasis on the Seventh-day Adventist educational system.

EDUC 135. Introduction to Education 2 hours

Required of all students seeking elementary or secondary licensure. Designed to acquaint the student with the experiences, qualifications, and duties of the classroom teacher. Students will spend at least twenty (20) hours during the semester observing and participating in local elementary or secondary classrooms.

EDUC 217. Psychological Foundations of Education (F-1) 2 hours

A study of the processes of human growth, development, and learning, joined to the practical application of this knowledge to teaching. Twenty (20) hours of observation and analysis of appropriate child and adolescent behaviors are incorporated in the class activities.

EDUC 240. Education for Exceptional Children and Youth 2 hours

A course in the education of exceptional children in the regular classroom. It includes a study of the wide range of factors contributing to the exceptionality, the identification of exceptional children and youth by the classroom teacher and the consequent classroom implications. Twenty (20) hours of clinical and field experience will be required.

EDUC 250. Technology in Education (G-2) 2 hours

An introduction to applications of technology which will assist in efficient management and effective learning within the school environment. Experience will be gained in the development and use of audio-visual materials including computers and educational software.

EDUC 299. Outdoor Ministries**2 hours**

This course is designed to assist teachers and youth leaders in the development of relationships between children and nature for the purpose of enriching the spiritual life of children and youth. The student will learn to plan object lessons from nature, leadership in pathfinding, summer camp ministries and how to enliven Sabbath School programs with nature. A variety of laboratory skills will be required in area school and church programs (up to 30 hours). A knowledge of nature is suggested but not required.

EDUC 325. Philosophy of Christian Education (W)**2 hours**

A study of the scriptural principles and philosophic base of Christian education as expounded by E. G. White and implemented by the Seventh-day Adventist Church.

EDUC 332. Teaching of Reading**3 hours**

Prerequisite: Admission to Teacher Education.

Survey of the materials and methods used in teaching reading in the elementary grades. It emphasizes the approaches to teaching reading including phonics instruction.

EDUC 356. Classroom Assessment**2 hours**

Prerequisite: Admission to Teacher Education or permission of department chair. The development of the preservice teachers' ability to make sound educational decisions in the assessment of classroom learning and testing. Discussion will include current and future trends, test construction, and appropriate use of test results. An additional 15 hours of clinical and field experience are required.

EDUC 364. Environmental Education**2 hours**

This course is designed to give "hands-on" learning in the use of the outdoor classroom. Recent trends in methods, materials, strategies, laboratory techniques, assessment, and professional guidelines for the elementary, junior, and senior high school curriculum will be covered. Up to four (4) days field experience will be required as a part of the class project. There will be a charge for the trip.

EDUC 421. Behavior Management**2 hours**

Prerequisite: Admission to Teacher Education.

Examines basic principles of discipline applicable to elementary school children. It reviews a variety of philosophical approaches to discipline, and identifies and role plays practical procedures for administrators and practitioners by which to attain and maintain acceptable management practices. In addition, the course seeks to probe the concept of discipline as a way of life in which the individual is assisted in developing a satisfactory and fulfilling lifestyle. This course requires five (5) hours of clinical experiences and ten (10) hours of field experiences. (Credit not permitted if PSYC 421 has been taken.)

EDUC 422. Behavior Management for Adolescents**2 hours**

Prerequisite: Admission to Teacher Education.

A study of basic principles of discipline applicable to the teenage years. It reviews a variety of philosophical approaches to discipline, and identifies practical procedures for administrators and practitioners to attain and maintain acceptable management practices. In addition, the course seeks to probe the concept of discipline as a way of life in which the individual is assisted in developing a satisfactory and fulfilling lifestyle. This course requires five (5) hours of clinical experiences and ten (10) hours of field experiences. (Credit not permitted if PSYC 422 has been taken.)

EDUC 426. Kindergarten Methods**2 hours****Prerequisite:** Admission to Teacher Education.

Designed to give the student an understanding of administration, program planning, materials, and strategies for teaching in preschool. Emphasis is given to application of the principles of child development and learning to promote harmonious physical, mental, social, and emotional growth. At least ten (10) hours of observation and participation required.

EDUC 433. Reading in Content — Elementary Emphasis**2 hours****Prerequisite:** Admission to Teacher Education.

This course will help teachers focus on those reading skills essential for the needs of each student. It will include modeling the process necessary for reading and learning concepts in a subject area and instructing students so they can become independent learners. Additionally, the development of vocabulary, comprehension and study/reference skills in the elementary grades will be covered. Causes of reading problems, assessment procedures, and organization of a sound reading program are stressed. Principles learned will be applied in classroom settings. Ten (10) hours of field experiences required.

EDUC 434. Reading in Content — Secondary Emphasis**2 hours****Prerequisite:** Admission to Teacher Education.

This course will help teachers focus on those reading skills essential for the needs of each student. It will include modeling the process necessary for reading and learning concepts in a subject area and instructing students so they can become independent learners. Additionally, the development of vocabulary, comprehension and study/reference skills in grades 7-12 will be covered. Causes of reading problems, assessment procedures, and organization of a sound reading program are stressed. Principles learned will be applied in classroom settings. Ten (10) hours of field experiences required.

EDUC 437. Curriculum and General Methods, Grades 7-12**1 hour****Prerequisite:** Admission to Teacher Education.

This course will include the secondary curriculum content—factors that influence change, the most important current practices, and critical curriculum issues facing educators today. It will provide general knowledge of current teaching methods, strategies of learning, and evaluation procedures, as set forth in the Tennessee Institutional Model. Ten (10) hours of field-based experience in special education and multicultural education are required.

EDUC 438. Curriculum and Content Methods, Grades 7-12**1 hour****Prerequisite:** Admission to Teacher Education.

The areas which offer methods courses are: Biology, Chemistry, English, Health and Physical Education, History, Mathematics, Music, Physics, and Religious Education.

Directed observation in selected schools and attendance at local professional meetings are considered part of this course. Among the student's responsibilities will be the collection and organization of a file of teaching materials, the preparation of lesson plans in harmony with the Tennessee Instructional Model, and evaluation of textbooks. Ten (10) hours of clinical and ten (10) hours of field experiences in selected schools and attendance at selected local professional meetings are considered a part of the course.

EDUC 453. Mathematics Methods in the Elementary School 2 hours

Prerequisite: Admission to Teacher Education.

Includes curriculum organization, materials, methods, and instructional aids with emphasis on multi-grade classrooms. Attention is given to the sequential skill development and to changes in the mathematical contents, technology and pedagogy. Observation and micro-teaching required. Ten (10) hours of field experience are required.

**EDUC 454. Science and Health Methods
in the Elementary School 2 hours**

Prerequisite: Admission to Teacher Education.

Includes curriculum organization, methods, materials and equipment with emphasis on multi-grade classrooms. Techniques and materials are examined using basic principles of the scientific method. Fifteen (15) hours of observations, micro-teaching, and field experience are required.

EDUC 455. Bible Methods in the Elementary School 2 hours

Prerequisite: Admission to Teacher Education.

A course to develop teaching objectives, materials, and strategies in Biblical education with emphasis on the Christ-centered curriculum and integration of faith and learning. Special attention will be given to multi-grade classrooms. Six (6) hours of observations and micro-teaching required.

**EDUC 456. Language Arts Methods
in the Elementary School 2 hours**

Prerequisite: Admission to Teacher Education.

Curriculum organization, methods, materials, and instructional aids with emphasis on multi-grade classrooms. Strategies for instruction in writing, spelling, grammar, literature, and composition are developed. Ten (10) hours of observation and micro-teaching required.

**EDUC 457. Social Studies Methods
in the Elementary School 2 hours**

Prerequisite: Admission to Teacher Education.

A course to develop teaching objectives, instructional strategies, materials, and methods when integrating social studies, geography, and the worldwide mission of the church. Special attention will be given to multi-grade classrooms. Five (5) hours of clinical and five (5) hours of practicum required.

EDUC 460. Practicum in Special Education 1 hour

Prerequisite: Admission to Teacher Education.

Provides opportunity for the prospective teacher to develop appreciation for children who require special modalities for learning. Field experiences (up to thirty [30] hours) will permit interaction with students with various exceptionalities. A 50 percent tuition waiver applies to this class, calculated according to the policy.

EDUC 461. Practicum in Multicultural Education 1 hour

Prerequisite: Admission to Teacher Education.

A course designed to develop a global perspective in the teacher. Opportunities will be given for interaction in an educational setting with students from varied cultural and minority groups. Adaptation of teaching methods and content to students' backgrounds will be prominent in the fifteen (15) hours of field experiences. A 50 percent tuition waiver applies to this class, calculated according to the policy.

EDUC 463. Small Schools Seminar**2 hours**

Prerequisite: Admission to Teacher Education.

Required of all candidates seeking licensure K-8 or 1-8. Topics will include the specialized needs of the multi-grade teacher in administration, record keeping, curriculum management, and organization in small schools.

EDUC 465. Pre-Session Student Teaching**2 hours**

Prerequisites: Admission to Student Teaching and completion of all other requirements.

This course is offered for qualified students needing experience in the "start up" dynamics of elementary and secondary programs. It involves 80 clock hours of on-site work with a qualified supervising teacher for one week prior to the fall semester through the first week of school. In consultation with the director of practice teaching, students are required to arrange for their own placement and submit a course application to the Education department office by May 1.

EDUC 466. Enhanced Student Teaching K-8**10 hours**

Prerequisite: Admission to Student Teaching and completion of all other requirements.

Designed as a full-time practicum for one semester. Students are placed for part of the semester in a kindergarten setting. Cooperating teachers, determined by the district and college personnel, are selected according to experience, certification, and competence, and share supervision responsibilities with Southern College faculty, who assume responsibility for the final summative evaluation. No other courses may be taken during student teaching.

EDUC 467. Enhanced Student Teaching 1-8**10 hours**

Prerequisite: Admission to Student Teaching and completion of all other requirements.

Designed as a full-time practicum for one semester. Students are placed in two different settings (1-4, 5-8) during the semester. Cooperating teachers, determined by the district and college personnel, are selected according to experience, certification, and competence, and share supervision responsibilities with college faculty, who assume responsibility for the final summative evaluation. No other classwork may be taken during student teaching.

EDUC 468. Enhanced Student Teaching 7-12**10 hours**

Prerequisite: Admission to Student Teaching and completion of all other requirements.

Designed as a full-time practicum for one semester. Students are placed in two different settings (7-8, 9-12) during the semester. Cooperating teachers, determined by the district and college personnel, are selected according to experience, certification, and competence, and share supervision responsibilities with college faculty, who assume responsibility for the final summative evaluation. Students may not be enrolled in any other classwork during this semester.

EDUC 469. Enhanced Student Teaching K-12**10 hours**

Prerequisite: Admission to Student Teaching and completion of all other requirements.

(This course is for music and physical education majors only.)

Designed as a full-time practicum for one semester. Students are placed in three different settings (K-4, 5-8, 9-12) during the semester. The time spent will be approximately 6 weeks in each area. Cooperating teachers, determined by the district and college personnel, are selected according to experience, certification, and competence, and share supervision responsibilities with college faculty, who assume responsibility for the final summative evaluation. Students may not be enrolled in any other courses during this semester.

EDUC 475. Workshop in Education (Methodology) 1-3 hours

Experienced teachers are given opportunity to work under supervision on curriculum problems. Credit is also available for preservice students as an elective.

EDUC 485. Workshop in Education (Content) 1-3 hours

Experienced teachers are given opportunity to develop new skills and gather new facts in content fields at various levels. Credit is also available for preservice students as an elective.

EDUC 295/495. Directed Study 1-2 hours

Prerequisite: Admission to Teacher Education.

This course permits the advanced student with adequate preparation to pursue independent study in special fields. This course may be repeated for credit.

PSYCHOLOGY

PSYC 124. Introduction to Psychology (F-1) 3 hours

A beginning course in the basic principles and concepts of psychology. Special attention is given to provide an exposure to a wide variety of human behaviors, which may include but are not limited to: sensation, perception, learning, memory, thinking, development motivation and personality. Included in this course are twenty (20) hours of active learning experience, which may include field experiences outside the classroom.

PSYC 128. Developmental Psychology (F-1) 3 hours

A study of life from prenatal through the adult years. Emphasis is placed on the emotional, social, physical, and psychological development of the individual. This course requires ten (10) hours of field experience. The choices of field experience facilities may be limited due to the number of students enrolled in the semester.

PSYC 217. Psychological Foundations of Education (F-1) 2 hours

See EDUC 217 for course description. (Credit not permitted if EDUC 217 has been taken.)

PSYC 224. Social Psychology (F-1) 3 hours

A study of human behavior as affected by group living. Dynamics of groups, social roles, communication, and mass behavior are focuses of consideration. Credit applicable for either psychology or sociology emphasis, but not for both.

PSYC 230. Principles and Application of Cognitive Development 2 hours

Prerequisite: PSYC 124, or EDUC 217, or permission of instructor.

A study of the psychological process by which humans acquire knowledge. Perception, reasoning, problem solving, and language skills will be analyzed. Emphasis will be placed on the applications of cognitive processes to the teaching/learning environments. The practical application of the knowledge learned from cognitive theories is applied to teaching and ten (10) hours of clinical experience is required.

PSYC 233. Human Sexuality (F-1 or F-2) 3 hours

See SOCI 233 for course description. (Credit not permitted if SOCI 233 has been taken.)

PSYC 240. Psychology of Exceptional Children and Youth 2 hours

See EDUC 240 for course description. (Credit not permitted if EDUC 240 has been taken.)

PSYC 297. Research Design and Statistics I **3 hours**

Prerequisite: EDUC 135 or PSYC 124 or PSYC 128.

This course provides an introduction to various research methods in the fields of psychology and education. The student is introduced to descriptive and inferential statistics and to the process of proposal writing. Emphasis is placed upon describing how statistics can be used as a tool in research design. Computer aided analysis (SPSS) of data and practice exercises is an integral part of the course.

PSYC 315. Abnormal Psychology (F-1) **3 hours**

Prerequisite: PSYC 124 or 128.

A study of the etiology of pathological behavior and the factors of good adjustment and mental health. Attention is paid to several continuing or recent controversial issues in the field of psychopathology. Included in this course are twenty (20) hours of active learning experiences, ten (10) of which may include field experiences outside the classroom.

PSYC 326. Physiological Psychology **3 hours**

Prerequisite: Three hours in Biology.

This course focuses on the physiological substrates of behavior. Specific attention is given to the physiological basis of learning and motivation, sensation, emotion, neural encoding, and sleep. Further analysis of the structural and functional organization of the brain and nervous system. This course will be taught in alternate years.

PSYC 336. Language Acquisition and Development **2 hours**

Prerequisite: PSYC 124 or 128.

A study of the major theories of language acquisition, with emphasis on language development beginning at birth and extending through middle childhood. This course incorporates ten (10) hours of active learning experiences, five (5) hours of which require field experiences outside the classroom.

PSYC 346. Introduction to Personality Theories **3 hours**

Prerequisite: PSYC 124 and 128.

This course is an exploration of the major paradigms of personality theory from a Christian perspective. For example, psychoanalysis, behaviorism, humanism, existentialism, and others will be covered. It will focus on the modern theorists, including White, Rogers, Skinner, May, Bandura, Mischel, Wilson, and Barash. A study of human motivation and an exploration of individual personality perspective will provide useful personal information.

PSYC 349. Aging and Society (F-1) (W) **3 hours**

See SOCI 349 for course description. (Credit not permitted if SOCI 349 has been taken.)

PSYC 356. Classroom Assessment **2 hours**

See EDUC 356 for course description. (Credit not permitted if EDUC 356 has been taken.)

PSYC 357. Psychological Testing **3 hours**

Prerequisite: PSYC 124 and MATH 215 or approval of Instructor.

This course is designed to introduce the student to the principles of testing, particularly as it relates to the practice of psychology. Specifically, the course examines the purpose of individual assessment of ability, aptitude, achievement, interest, and personality. Theory and basic concepts underlying the individually administered and group tests will be evaluated. Non-standardized tests and other techniques for psychological assessment will also be addressed.

PSYC 377. Fundamentals of Counseling (F-1) (W) 3 hours

Recommended: One course in Psychology.

This is an introduction to the major theories and practices of individual counseling. The dynamics of the helping relationship are analyzed. In addition to theory, twenty (20) hours of clinical and field experiences are required.

PSYC 384. Experimental Psychology 3 hours

This course is designed to introduce the student to the principles and practices of experimentation in the field of psychology. Specifically, this course focuses on the true experiment. In addition, it will familiarize the student with the quasi experiment and the issues involved in the use of human and animal subjects in research. This course will be taught in alternate years.

PSYC 387. Comparative Psychology 3 hours

See BIOL 387 for course description. (Credit not permitted if BIOL 387 has been taken.)

PSYC 415. History and Systems of Psychology (F-1) (W) 3 hours

Prerequisite: PSYC 124.

Philosophical and historical backgrounds of psychology leading to a consideration of contemporary schools and systems of psychology.

PSYC 421. Behavior Management 2 hours

See EDUC 421 for course description. (Credit not permitted if EDUC 421 has been taken.)

PSYC 422. Behavior Management for Adolescents 2 hours

See EDUC 422 for course description. (Credit not permitted if EDUC 422 has been taken.)

PSYC 432. Industrial/Organizational Psychology 3 hours

A study of human behavior in industries and organizations. Major theories, issues, research, and methods will be introduced. Emphasis is given to acquainting students with the possible applications of psychology to the fields of business and organizational management. This course will be taught in alternate years.

PSYC 460. Group Processes 3 hours

Prerequisite: PSYC 377.

This course will offer the advanced student the opportunity to explore through practice the various roles of group dynamics. The experience will provide skill development for the management of small groups in therapy, school, and church settings.

PSYC 465. Topics in Psychology 3 hours

Selected topics in psychology as chosen from such areas as: psychology of religion, ethics, individual differences, psychology of women, sensation and perception, etc. This course may be repeated for credit with an appropriate change in topics.

PSYC 479. Family Counseling 3 hours

Prerequisite: PSYC 377.

An advanced counseling techniques course including an emphasis on family and individual counseling and how to direct persons to make changes towards more effective interpersonal relationships.

PSYC 485. Psychology Practicum**1-2 hours****Prerequisite:** Approval of instructor.

Supervised volunteer/work experience in related fields of psychology. At least forty clock hours of work experience are required for each semester hour of credit. Practicum arrangements are to be completed by the student in advance of registration after consulting with the instructor. Procedures and guidelines are available from the department. A two-thirds tuition waiver applies to this class, calculated according to the policy. May be repeated for credit for up to 3 hours. Grades will be assigned on an A, C, or F basis.

PSYC 490. Psychology Seminar**1 hour****Prerequisite:** Psychology major or minor with senior standing.

This course is designed to present a holistic overview of psychology while integrating current issues and contemporary problems.

PSYC 295/495. Directed Study**1-2 hours****Prerequisite:** Approval by department.

This course permits the student with adequate preparation to pursue independent study in special fields. The area of study will appear on the transcript. Directed study arrangements are to be completed by the student in advance of registration after consulting with the instructor. Procedures and guidelines are available from the department. May be repeated for credit.

PSYC 497. Research Design and Statistics II**3 hours****Prerequisites:** PSYC 297, MATH 215, or approval of Department Chair.

This course permits students to apply principles of statistics and computer analysis to both the design of a research proposal and the completion of a research project. Emphasis is placed on defining and delimiting a problem, writing a hypothesis, and planning for data analysis.

(F-1) (F-2) (G-2) (W) See pages 25-29 for explanation of General Education requirements.

ENGINEERING STUDIES

Engineering Studies Committee:

Lawrence Hanson (Chair), John Durichek, Henry Kuhlman

Southern College offers the first two years of a baccalaureate degree in engineering. Upon completing the two-year engineering studies program, students transfer to the Walla Walla College School of Engineering, with which Southern College is affiliated, for the final two years. Southern College awards an Associate of Science degree in Engineering Studies. Walla Walla College, located in Washington State, awards a Bachelor of Science in Engineering degree with concentrations in civil, electrical, and mechanical engineering and a pre-professional Bachelor of Science degree in bioengineering.

The WWC School of Engineering offers a high quality program that is fully accredited by the Accreditation Board for Engineering and Technology—the only nationally recognized organization which accredits engineering programs. It has an enrollment of approximately 250 students, many of whom are transfer students from affiliated Seventh-day Adventist colleges.

The Southern College affiliation with Walla Walla College makes the transition to the final two years of the baccalaureate engineering program essentially the same as if the first two years were taken there. Even though transfer to Walla Walla College is simpler than to a non-affiliated school, the Southern College engineering studies program is compatible with baccalaureate engineering programs of most colleges and universities.

ASSESSMENT

The engineering studies program is designed to parallel the first two years of the baccalaureate engineering degree at Walla Walla College. It is regularly assessed by means of one or two campus visits each year by engineering faculty from their College of Engineering.

PROGRAM IN ENGINEERING STUDIES

Major—A.S. Engineering Studies (34 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
ENGR 149	Mechanical Drawing	2	MATH 200	Elem Linear Algebra	2
ENGR 150	Comput-Aided Drafting	3	MATH 218	Calculus III	4
ENGR 211	Eng Mech: Statics	3	PHYS 211-212	General Physics	6
ENGR 212	Eng Mech: Dynamics	3	PHYS 213-214	General Physics Lab	2
MATH 181	Calculus I	3	PHYS 311-312	Gen Physics Calc App	2
MATH 182	Calculus II	4			
<u>Required Cognates</u>		<u>Hours</u>			
CHEM 151-152	General Chem	8			
CPTR 131	Fund of Prog I	3			

Sample Freshman Year Sequence
A.S. Engineering Studies

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
CHEM 151	General Chemistry	4	CHEM 152	General Chemistry	4
CPTR 131	Fund of Prog I	3	ENGR 150	Comput-Aided Draft	3
ENGL 101	College Composition	3	MATH 200	Elem Linear Algebra	2
ENGR 149	Mechanical Drawing	2	MATH 182	Calculus II	4
MATH 181	Calculus I*	3	RELB 125	Life and Teachings	3
	Area G, PE Activity	1			16
		<u>16</u>			

*Engineering students are expected to have taken a year-long precalculus course (beyond Algebra II) in high school. Those who haven't should take a college precalculus course at home during the summer.

The total number of hours for the A.S. degree in engineering studies is sixty-four. Students who plan to continue their education at an engineering school other than Walla Walla College should take that school's catalog to the engineering adviser for guidance in selecting general education courses.

ENGINEERING COURSES

ENGR 149. Mechanical Drawing (G-2) **2 hours**
See TECH 149 for course description.

ENGR 150. Computer-Aided Drafting (G-2) **3 hours**
Prerequisite: ENGR 149 or equivalent.

An introduction to Computer-Aided Drafting. A study of the computer as an aid in drawing and design as it applies to technical, mechanical, architectural and electrical fields using Auto Cad and Cad Key. Six periods laboratory each week. Lecture as announced by the instructor. (Spring)

ENGR 151. Architectural Drafting **3 hours**
See TECH 151 for course description.

ENGR 211. Engineering Mechanics: Statics **3 hours**
Pre- or corequisites: MATH 182; PHYS 211, 213.

Two and three-dimensional equilibria employing vector algebra; friction; centroids and center of mass, virtual work, and moments of inertia. (Fall)

ENGR 212. Engineering Mechanics: Dynamics **3 hours**
Pre- or corequisites: ENGR 211; MATH 218; PHYS 212, 214, 311-312.

One and two-dimensional kinetics and kinematics of rigid bodies by vector calculus; dynamics of rotation, translation and plane motion; relative motion; work and energy; impulse and momentum. (Spring)

(G-2) See pages 25-29 for general degree and general education requirements.

ENGLISH AND SPEECH

Chair: David C. Smith

Faculty: Don Dick, Joan dos Santos, Jan Haluska, Pam Harris, Debbie Higgins, John Keyes, Wilma McClarty, Helen Pyke, Lynn Sauls

Adjunct Faculty: Ann Clark, Rosemary Dibben, Penny Kilgore, Bobbie Jane Van Dolson

The English and Speech Department offers two categories of classes that view man's search for truth and its most convincing expression through a Christian perspective. *Language and speech* courses aid students in developing ease, confidence, and competence in the art of effective communication and in acquiring knowledge of the science of language; *literature* courses develop the ability to discern and appreciate the best literary works.

Students majoring or minoring in English must meet the specific requirements of the English Department (below) and the General Education program (pages 25-29). For the English major, intermediate foreign language is required. College Composition does not count toward an English major or minor, but students majoring or minoring in English must earn a grade of C or higher in College Composition.

ASSESSMENT

As part of a departmental assessment process, senior English majors complete a writing portfolio analysis, a written exam, a self-analysis, and a written evaluation of departmental programs. Results provide information used to improve departmental programs; graduation eligibility is not affected. Majors are informed about the purpose and nature of these assessment activities when they enter the English program.

PROGRAMS IN ENGLISH LANGUAGE AND LITERATURE

Major—B.A. English (30 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Select 9 Hours From:</u>		<u>Hours</u>
ENGL 214	Survey of American Lit	3	ENGL 326	Film Evaluation	3
ENGL 215	Survey of English Lit	3	ENGL 335	Biblical Literature	3
ENGL 216	Approaches to Literature	3	ENGL 336	Medieval & Ren Lit	3
ENGL 305	Advanced Grammar	3	ENGL 337	19th-Century Brit Lit	3
ENGL 315	Introduction to Linguistics	3	ENGL 338	Twentieth-Century Writers	3
ENGL 445	World Literature	3	ENGL 444	Restor & 18th-Century Lit	3
ENGL 313	Expository Writing		ENGL 323	19th-Century Amer Lit	
	OR	3		OR	3
ENGL 314	Creative Writing		ENGL 425	Literature of the South	
			ENGL 313	Expository Writing	
				OR	3
			ENGL 314	Creative Writing	
			ENGL 397	English Practicum	
				OR	3
			ENGL 497	English Internship	

Majors may substitute a journalism writing class or an English topics course for one English elective.

<u>Required Cognates</u>		<u>Hours</u>	<u>Recommended for teaching majors:</u>		<u>Hours</u>
SPCH 135	Intro to Public Speaking	3	JOUR 205	News Reporting	3
HMNT 205	Arts and Ideas	3		OR	
HIST 374	History of England	3	JOUR 174/475	Journalism Workshop	1-3
	Intermed foreign Language	6			

Students planning to obtain educational certification will need to include the required professional education courses and additional general education requirements in their program as outlined in the Education/Psychology section of this catalog. Students preparing for secondary teacher certification must also take LIBR 425. English majors who minor in journalism or public relations are eligible for internships through the Journalism Department.

Sample Freshman Year Sequence

B.A. English

(Non-Teaching)

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
ENGL 101	College Composition	3	ENGL 102	College Composition	3
SPCH 136	Intro to Public Speaking	3	ENGL 216	Approaches to Lit	3
	Area B, Religion	3		Area D-1, Inter	
	Area C, History	3		Foreign Lang	3
	Area D-1, Inter For Lang	3		Area E, Nat Science	3
	Area G-3, Rec Skills	1		Minor	3
		16			15

Sample Freshman Year Sequence

B.A. English

(Teaching)

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
EDUC 135	Intro to Education	2	ENGL 102	College Composition	3
ENGL 101	College Composition	3	ENGL 216	Approaches to Lit	3
RELT 138	Adventist Heritage	3	HLED 173	Health and Life	2
	Area C, History	3	SPCH 135	Intro to Public Speaking	3
	Area D-1, Inter For Lang	3		Area D-1, Inter	
		14		Foreign Lang	3
				Area E, Nat Science	3
					17

Minor—English (18 Hours)

<u>Required Courses</u>	<u>Hours</u>	<u>Required Courses, cont.</u>	<u>Hours</u>
ENGL 214	Survey of Amer Lit	ENGL 313	Expository Writing
ENGL 215	Survey of English Lit		OR
ENGL 216	Approaches to Literature	ENGL 314	Creative Writing
ENGL 205	Grammar and Linguistics		Upper Division Electives
	OR		3
ENGL 305	Advanced Grammar		

ENGLISH LANGUAGE AND COMPOSITION

Students whose native language is not English and whose TOEFL scores are between 490-549 or whose English ACT score is below 17 will be required to take special English classes offered by the English Department. These students are ineligible for Basic Writing or College Composition until they have completed these special English classes. Students with TOEFL scores below 490 are ineligible to take classes in the English Department.

ENGL 099. Basic Writing **3 hours**

Focuses on development of those writing skills necessary for successful entry into ENGL 101. Students whose English ACT score is 16 or below are required to register for this class. Students successfully completing this course will earn three institutional elective credits and may enroll in ENGL 101. This course does not count toward an English major or minor. (Fall)

ENGL 101-102. College Composition (A-1) **3,3 hours**

ENGL 101 is prerequisite to ENGL 102.

A two-semester course focusing strongly on the writing process, especially revision. ENGL 101 emphasizes specific writing skills and principles which readily apply to most writing tasks. Students write expository essays organized according to prescribed modes. ENGL 102 reinforces the proficiencies developed in ENGL 101 while focusing on rhetorical and reasoning skills which apply to various persuasive and research writing activities. Students write persuasive essays and a research paper. This course does not count toward an English major or minor. (Fall, Spring, Summer)

ENGL 205. Grammar and Linguistics for Teachers **3 hours**

An individualized review of traditional grammar and standard American usage and an introduction to linguistic topics relevant to the prospective elementary school teacher. Included are a survey of English language development, a study of the nature of language, and a discussion of dialects in the classroom.

ENGL 305. Advanced Grammar **3 hours**

Prerequisite: Minimum English ACT usage subscore of 13, ENGL 205, or a challenge exam.

An overview of major grammatical theories. The course, designed for English majors, includes a review of traditional grammar, but emphasizes structural analysis and transformational grammar.

ENGL 313. Expository Writing (G-2) (W) **3 hours**

A workshop approach that provides practical instruction in expository writing for all disciplines. Emphasis on inventional procedures, connecting substance and structure, research, revision, persuasion, and adapting material and tone for a specific audience. Involves reading and analysis of a wide variety of writing. Helpful for all students wishing to improve their writing skills, including students headed for graduate school or professional fields like business, medicine or law where writing is important. Writing topics may be chosen from a student's major field of study, and students will work on producing publishable material for their particular field. Tailored to the level, needs, and interests of students who enroll. (Fall)

ENGL 314. Creative Writing (G-1) (W) **3 hours**

Prerequisite: Three hours of literature or permission of instructor.

A study of the principles, techniques, and kinds of personalized writing, providing the student with opportunity to develop his own style and to find possible markets for his manuscripts that may be worthy of publication. (Spring)

ENGL 315. Introduction to Linguistics **3 hours**

Prerequisite: ENGL 305.

A survey course introducing the student to the origin, history, and development of the English language. The course focuses on the nature of language and language change, phonology, morphology, syntax, semantics, and ethical issues in language use. (Spring)

ENGL 415. English Practicum**1-3 hours**

Prerequisites: 18 hours in the major, ENGL 313 Expository Writing or ENGL 314 Creative Writing, and formal approval by the department.

The student gains on-the-job experience using English skills in a part-time work situation (maximum of 25 hours per week). A department coordinator works with the student and a local business to oversee placement and evaluation. Both the student and the business assess in writing the quality and nature of the work experience. The student receives 1 credit hour for each 50 hours of work experience. Positions can be paid or non-paid. Procedures and guidelines are available from the department. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 236. (Pass/Fail credit).

ENGL 416. English Internship**3 hours**

Prerequisites: 18 hours in the major, ENGL 313 Expository Writing or ENGL 314 Creative Writing, and formal approval by the department.

The student gains on-the-job experience using English skills in a full-time work situation (minimum of 35 hours per week). A department coordinator works with the student and a selected business to oversee placement and evaluation. Both the student and the business assess in writing the quality and nature of the work experience. A minimum of 150 hours of supervised work is required. Positions can be paid or non-paid. Procedures and guidelines are available from the department. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 236. (Pass/Fail credit).

LITERATURE**ENGL 214. Survey of American Literature (D-2)****3 hours**

Prerequisite: ENGL 102.

A study of representative selections from major American authors, colonial through modern, with emphasis on ideas, attitudes, and trends having individual, national, and universal interest. (Fall)

ENGL 215. Survey of English Literature (D-2)**3 hours**

Prerequisite: ENGL 102.

A study of representative selections by British writers, with special emphasis on the author's philosophy as compared or contrasted with Bible-based thinking, and a review of literary trends and influences from the late Roman period to the present. Among writers receiving strong attention are Chaucer, Shakespeare, Donne, Milton, Wordsworth. (Fall, Spring)

ENGL 216. Approaches to Literature (D-2)**3 hours**

Prerequisite: ENGL 101.

A study of what recognized poets, short-story writers, dramatists, and novelists have to say about the human condition, emphasizing the various approaches to literature and including an introduction to literary terms and critical evaluation. (Spring)

ENGL 323. Nineteenth-Century American Literature (D-2) (W) 3 hours

A chronological study of major nineteenth-century American writers and their works beginning with the writings of Washington Irving and the emergence of a genuine "American" literature and ending with Stephen Crane and Jack London whose naturalistic works bridge the nineteenth and twentieth centuries. Among the authors studied are Cooper, Bryant, Longfellow, Emerson, Thoreau, Poe, Hawthorne, Melville, Whitman, Dickinson, Twain, and James. (Fall, even years)

ENGL 326. Film Evaluation (D-2) (W) 3 hours

The primary goal of the class is to help each student develop a personal set of criteria for evaluating films. Class activities include viewing films that have made significant contributions to our culture, reading film reviews and criticisms, studying how films are made and how to write about films, and writing about them. The class meets one night per week for a minimum of 3 hours, at which time films are viewed. Evaluation papers based on this viewing are due weekly. (Spring)

ENGL 335. Biblical Literature (D-2) (W) 3 hours

A study of some of the literary masterpieces of the Bible in English translation. The course applies techniques of oral interpretation and literary analysis (including emphasis upon uses of poetic and rhetorical devices and of figures of speech) to forms of literature such as address, proverb, parable, poem, short story, epistle, and apocalypse. (Spring, odd years)

ENGL 336. Medieval and Renaissance Literature (D-2) (W) 3 hours

From Chaucer through Milton, the writers and their times. Readings in Middle English narrative, allegory, play, and meditation; in sixteenth and seventeenth-century prose, poetry and dramatic literature, with the study of genre, conventions, and trends. Specific attention to moral and religious issues. (Spring, odd years)

ENGL 337. Nineteenth-Century British Literature (D-2) (W) 3 hours

A study of British writers from the Romantic or Victorian periods (1785-1901), with special emphasis upon Blake, Wordsworth, Coleridge, Byron, Shelley, Keats, Austen, Tennyson, Dickens, Arnold, Browning, Carlyle, and Wilde. (Spring, even years)

ENGL 338. Twentieth-Century Writers (D-2) (W) 3 hours

A study of twentieth-century writers with an emphasis on American and/or British works, although world literature in translation may be included. (Spring)

ENGL 425. Literature of the South (D-2) (W) 3 hours

A study of works written by Faulkner, Welty, Warren, Wright, O'Connor and other southern writers which embody the distinctive cultural heritage of the South. An emphasis on the literary treatment of southern traditions and themes. (Fall, odd years)

ENGL 444. Restoration and Eighteenth-Century Literature (D-2) (W) 3 hours

This course considers English literature written between the Restoration and Romantic Revolution. Included are poets and essayists from Milton to Johnson, novelists like Defoe and Fielding, and comic playwrights such as Gay and Goldsmith. (Spring, odd years)

ENGL 445. World Literature (D-2) (W) 3 hours

Beginning with the three great epics which underlie the literature of the Western World—the Iliad, The Odyssey, and The Book of Job—the class will consider a range of classical and medieval works from the Greeks to the Italian Renaissance. Collateral emphasis will be on enhancing the student's ability to differentiate the pagan from the Christian in the thematic mix of individual works. (Fall)

ENGL 465. Topics in English (W) 3 hours

Selected topics in English presented in a classroom setting. Subjects covered will determine how the class applies to the major. This course may be repeated for credit.

ENGL 295/495. Directed Study**1-3 hours**

The content of this course will be adjusted to meet the particular needs of the student. This course also includes credit offered by the English Department on directed study tours. Open only to English majors or minors with the approval of the department chairman in consultation with the prospective instructor. This course may be repeated for credit.

SPEECH**SPCH 135. Introduction to Public Speaking (D-4)****3 hours**

Preparation and presentation of short informative and persuasive speeches with emphasis on the selection and organization of material, reasoning, methods of securing interest, persuasive strategies, and the elements of delivery. (Fall, Spring, Summer)

SPCH 136. Interpersonal Communication (D-4)**3 hours**

Introducing the process of informal transactional communication, this course emphasizes a quality of communication rather than a communication setting, namely personal involvement through emphatic listening and self-disclosure. The course utilizes readings and learning activities to help students understand the theory of interpersonal communication and apply it in realistic transactions.

SPCH 236. Oral Interpretation (D-4)**3 hours**

Theory and practice in the art of conveying to others the full meaning of selections in literature of various types via reading and interpreting orally.

SPCH 465. Topics**3 hours**

Selected topics in speech and related areas presented in a classroom setting. Subjects covered will determine general education credit status. This course may be repeated for credit.

SPCH 295/495. Directed Study**1-3 hours**

The content of this course will be adjusted to meet the particular needs of the student. Open only to students approved by the department chair in consultation with the prospective instructor. This course may be repeated for credit.

EDUCATION**EDUC 438. Curriculum and Content Methods/English****1 hour**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performance; the survey and evaluation of textbooks is also included.

(A-1) (D-2) (D-4) (G-1) (G-2) (W) See pages 25-29 for explanation of General Education requirements.

HEALTH, PHYSICAL EDUCATION, AND RECREATION

Chair: Phil Garver

Faculty: Ted Evans, Steve Jaecks, Heather Williams-Neal

Adjunct Faculty: Bob Benge, Nancy Brock, Bill Godsey, Charles Knapp, Ron Reading

The courses in Health, Physical Education, and Recreation propose to acquaint students with principles of healthful living, to develop physical efficiency, to develop wholesome recreational habits and/or prepare for a career in health, physical education, and recreation, or in wellness management.

ASSESSMENT

To help the graduates in Health, Physical Education, and Recreation evaluate their academic progress and to aid the department in evaluating teaching effectiveness, each senior is required to:

1. Take PETH 490, Senior Comprehensive Seminar, which prepares the student for the exit exam.
2. Take an exit exam.
3. Present a portfolio of major projects and papers to the departmental faculty.

The exit exam is graded pass/fail and may be repeated. The results of the assessment procedures are used to evaluate departmental programs.

PROGRAMS IN HEALTH, PHYSICAL EDUCATION, AND RECREATION

Major—B.S. Physical Education (41 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
PEAC 254	Lifeguarding	1	PETH 219	ProAct — Gymnastics	1
PEAC 255	Water Safety Instr	1	PETH 265, 266	Offic Sports I, II	4
PETH 114	ProAct — Softball	1	PETH 314	Kinesiology	3
PETH 115	ProAct — Flagball	1	PETH 315	Physiology of Exercise	4
PETH 116	ProAct — Volleyball	1	PETH 363	Intro Meas/Res of PE	3
PETH 117	ProAct — Basketball	1	PETH 364	Prin & Admin PE & Rec	3
PETH 118	ProAct — Floor Hockey	1	PETH 374	Motor Learning and Dev	2
PETH 119	ProAct — Soccer	1	PETH 437	Adaptive Physical Ed	2
PETH 214	ProAct — Tennis	1	PETH 463	Physical Ed in Elem School	2
PETH 215	ProAct — Golf	1	PETH 474	Psych and Soc of Sports	2
PETH 216	ProAct — Conditioning	1	PETH 490	Senior Comp Sem	1
PETH 217	ProAct — Badminton	1	PETH 295/495	Directed Study	1-3
PETH 218	ProAct — Track and Field	1			

<u>Required Cognates</u>		<u>Hours</u>	<u>Required Cognates, cont.</u>		<u>Hours</u>
BIOL 101-102	Anatomy and Physiology	6	HLED 373	Care/Prev Athl Injuries	2
FDNT 125	Nutrition	3	HLED 473	Health Education	2
HLED 173	Health and Life	2			

Competency required in PEAC 143, Beginning Tumbling.

Skill deficiencies in each PETH activity unit, 114 through 119 and 214 through 219, will be indicated by grade of C- or less. Deficiencies for these units must be met by taking for no credit the corresponding general education activity course.

Intramural participation is recommended for all majors and minors.

Students who desire teacher certification must meet the State of Tennessee certification requirements set forth by the Department of Education. The student must apply to the Department of Education for admission to the Teacher Education Program and the professional semester before the end of the sophomore and junior years, respectively.

Sample Freshman Year Sequence

B.S. Physical Education

(Leading to Licensure K-12)

1st Semester		Hours	2nd Semester		Hours
BIOL 101	Anatomy and Physiology	3	BIOL 102	Anatomy and Physiology	3
EDUC 135	Intro to Education	2	ENGL 102	College Composition	3
ENGL 101	College Composition	3	PETH 122	Prof Skills, Team	3
PETH 121	Prof Skills, Team	3	RELT 255	Christian Beliefs	3
	Electives	1	SOCI 233	Marriage and Family	2
	Area C-1, History	3		Area C-1, History	3
		16			17

Major—B.S. Corporate/Community Wellness Management (41 Hours)

Required Courses	Hours	Required Courses, cont.	Hours
BIOL 101-102 Anatomy and Physiology	6	HLED 497 Wellness Practicum	2
CHEM 111 Survey of Chem	3	PEAC 125 Conditioning	1
FDNT 125 Nutrition	3	PETH 314 Kinesiology	3
HLED 173 Health and Life	2	PETH 315 Physiology of Exercise	4
HLED 256 Drugs and Society	2	PETH 364 Prin & Admin of Phy Ed	3
HLED 373 Care/Prev Injuries	2	PETH 374 Motor Learning & Dev	2
HLED 470 Current Issues in Health	2	PETH 474 Psych & Sociology of Sports	2
HLED 476 Meth/Mat of Hlth Promo	3	PETH 490 Senior Comp Seminar	1
Required Cognates	Hours	Required Cognates, cont.	Hours
ACCT 103 College Accounting	3	ECON 213 Survey of Econ	3
BMKT 326 Intro to Marketing	3	JOUR 205 News Reporting	3
BUAD 334 Prin of Mgmt	3	PSYC 128 Developmental Psych	3
BUAD 358 Legal, Eth, & Soc Envir of Business	3	PSYC 377 Fund of Counseling	3
CPTR 105 Intro to Word Process	1	SOCI 223 Marriage & Family	2

Sample Freshman Year Sequence

B.S. Corporate/Community Wellness Management

1st Semester		Hours	2nd Semester		Hours
BIOL 101	Anatomy & Physiology	3	BIOL 102	Anatomy & Physiology	3
ENGL 101	College Composition	3	CPTR 105	Intro to Word Process	1
HLED 173	Health and Life	2	ENGL 102	College Composition	3
PEAC 125	Conditioning	1	SOCI 223	Marriage & Family	2
	Area B, Religion	3		Area C, History	3
	Area C, History	3		Electives	4
		15			16

Major—B.S. Health Science (45 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
BIOL 101-102	Anatomy and Physiology	6	MATH 215	Statistics	3
BIOL 225	Microbiology	4	PEAC 125	Conditioning	1
CHEM 151-152	General Chemistry	8	PETH 314	Kinesiology	3
FDNT 125	Nutrition	3	PETH 315	Physiology of Exercise	4
HLED 173	Health and Life	2	PETH 374	Motor Learning & Dev	2
HLED 373	Care/Prev Injuries	2	PETH 490	Senior Comp Seminar	1
HLED 470	Current Issues in Health	2	PETH 495	Directed Study	1-3
HLED 473	Health Education	2		Upper division elective	1

Sample Freshman Year Sequence
B.S. Health Science

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
BIOL 101	Anatomy and Phys	3	BIOL 102	Anatomy and Physiology	3
ENGL 101	College Composition	3	ENGL 102	College Composition	3
	Area C-1, History	3	SOCI 223	Marriage & Family	2
	Area A-2, Math	3-0		Area B-2, Religion	3
	Electives	4-7		Area C-1, History	3
		16		Electives	2
					16

Minor—Physical Education (18 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Select 8 Hours From:</u>		<u>Hours</u>
PETH 265	Officiating Sports Anal	2	PETH 114	ProAct—Softball	1
PETH 266	Officiating Sports Anal	2	PETH 115	ProAct—Flagball	1
PETH 364	Prin/Admin Phys Ed	3	PETH 116	ProAct—Volleyball	1
	Upper Division	3	PETH 117	ProAct—Basketball	1
			PETH 118	ProAct—Floor Hockey	1
			PETH 119	ProAct—Soccer	1
			PETH 214	ProAct—Tennis	1
			PETH 215	ProAct—Golf	1
			PETH 216	ProAct—Conditioning	1
			PETH 217	ProAct—Badminton	1
			PETH 218	ProAct—Track and Field	1
			PETH 219	ProAct—Gymnastics	1

HEALTH EDUCATION**HLED 173. Health and Life (F-3) 2 hours**

A study of current subjects vital to healthful living. Integrating healthful living and Christianity with today's scientific research. Not open to nursing students. (Fall, Spring, Summer)

HLED 203. Safety Education 2 hours

The nature and causes of accidents with emphasis in teacher/pupil safety problem situations. (Spring)

HLED 256. Drugs and Society 2 hours

An introductory course focusing on the use and abuse of drugs in our society. Emphasis on strategies to assist future health promoters in recognition, intervention, and prevention of substance abuse. Oral presentation required. (Fall)

HLED 373. Prevention and Care of Athletic Injuries 2 hours

Prerequisite: PETH 314.

Investigations into the prevention, care, and proper management of injuries related to athletics. (Spring)

HLED 470. Current Issues in Health**2 hours**

This seminar course is designed to assist students in becoming knowledgeable regarding health issues of our time. Library research and class presentations are required. Discussion and problem solving are emphasized. A major part of the class focuses on the need of a spiritual component in establishing a healthful and balanced lifestyle. (Fall)

HLED 473. Health Education**2 hours**

Prerequisite: HLED 173 or HLED 470.

A study of the theoretical and scientific basis of health education with emphasis on the development and organization of the school health instruction program. Two oral presentations required. (Spring)

HLED 476. Methods and Materials of Health Promotion**3 hours**

A course in planning, implementing and evaluating: work-site and community health promotion activities, including stress management, smoking cessation, cardiovascular fitness, body composition, and cholesterol testing. Oral presentation required. (Spring)

HLED 497. Wellness Practicum**2 hours**

The student will work at a wellness facility for not less than 100 clock hours gaining experience with equipment, observing facility scheduling and management, and interacting with clients. Arrangements are made in advance with the department chair. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 236. (Fall, Spring, Summer)

HEALTH, PHYSICAL EDUCATION, RECREATION**HPER 365. Topics in HPER****1-3 hours**

Selected topics in Health, Physical Education, or Recreation designed to meet the needs or interests of students in specialty areas not covered in regular courses. Subjects covered will determine how the class applies to the major. This course may be repeated for credit.

GENERAL EDUCATION ACTIVITY COURSES

PEAC courses have optional pass/fail grades available.

PEAC 123. Volleyball (G-3)**1 hour**

Development of the skills of passing, setting, serving, and spiking necessary in participation in power volleyball. (Fall)

PEAC 124. Basketball (G-3)**1 hour**

Individual skills and team concepts are developed that may be used in competition and leisure play. (Spring)

PEAC 125. Conditioning (G-3)**1 hour**

A study of basic fitness training and aerobic principles in conjunction with a personalized long-range conditioning program for disease prevention and health maintenance. (Fall, Spring)

PEAC 131. Badminton (G-3)**1 hour**

Instruction includes strokes, rules, and playing situations plus physical conditioning for badminton. (Spring)

- PEAC 133. Racquetball (G-3) 1 hour**
Focus is given to basic skills, rules, and terminology so that the student can carry on successful play. (Fall, Spring)
- PEAC 134. Basic Tennis (G-3) 1 hour**
Emphasis in basic tennis skills including the forehand, backhand, and serve. (Fall)
- PEAC 136. Basic Golf (G-3) 1 hour**
A basic course for the beginning golfer. Students must have their own golf clubs. Lab fee required. (Fall)
- PEAC 137. Cycling (G-3) 1 hour**
A course for the active cyclist emphasizing various types of cycling, cycling techniques, safe cycling, and maintenance. Each student provides his/her own bicycle and helmet. (Fall)
- PEAC 138. Intermediate Golf (G-3) 1 hour**
Play on a variety of courses for the bogey golfer. Students must have their own golf clubs. Lab fee required. (Fall)
- PEAC 139. Advanced Tennis (G-3) 1 hour**
For the advanced player. Emphasis is given to the advanced serve, volley, lobs, advanced ground strokes and playing strategy. Admission to class must be approved by instructor. (Fall)
- PEAC 143. Basic Tumbling (G-3) 1 hour**
Mat tumbling leading to gymnastic free-exercise routines in conjunction with acroport exposure.
- PEAC 144. Basic Apparatus (G-3) 1 hour**
Skill development on various gymnastic equipment such as the pommel horse, high bar, P-bars, rings, unevens, and balance beam.
- PEAC 151. Scuba Diving (G-3) 1 hour**
Leads to basic certification by N.A.S.D.S. or N.A.U.I. Lab fee of \$98 and check out dive expenses charged in addition to tuition. (Fall, Spring)
- PEAC 153. Basic Swimming (G-3) 1 hour**
Development of beginning and intermediate swimming skills coupled with aquatic safety principles. (Fall, Spring, Summer)
- PEAC 243. Tumbling Team (Gym-Masters) (G-3) 1 hour**
A "variety show" team which emphasizes acroport, sports acrobatics, gymnastics, physical fitness and health. Admission will be based on satisfactory performance of try-out requirements. Participation in all tours is required. This course may be repeated for credit. **Due to program conflicts, second semester Gym-Masters will not enroll in classes that meet before 1:00 p.m. on Tuesdays and Thursdays.** (Fall, Spring)
- PEAC 254. Lifeguarding (G-3) 1 hour**
Prerequisite: PEAC 253 or equivalent.
Leads to Red Cross Life Guarding certification, First Aid and CPR certification. (Fall, Spring)

PEAC 255. Water Safety Instructor (G-3) 1 hour

Prerequisite: PEAC 254 or equivalent.

Leads to Red Cross Water Safety Instructor certification. (Fall, Spring)

PEAC 259. Special Activities (G-3) 1 hour

Courses with various structured content may be offered under this topic heading. Included are courses in water skiing, sailing, small craft, snow skiing, rock climbing, spelunking, and aerobics. This course may be repeated with the varying subject matter. Lab fees in addition to tuition are usually charged approximately \$50-\$500.

PEAC 261. Introduction to Recreation (G-3) 1 hour

A course designed to promote outdoor recreation and provide experience for those interested in preparing for different phases of camp life, outdoor living and activities.

PHYSICAL EDUCATION THEORY

PETH 114. ProAct — Softball 1 hour

Development of professional skills including performance and teaching techniques for softball. For majors and minors only. (Fall, odd years)

PETH 115. ProAct — Flagball 1 hour

Development of professional skills including performance and teaching techniques for flagball. For majors and minors only. (Fall, odd years)

PETH 116. ProAct — Volleyball 1 hour

Development of professional skills including performance and teaching techniques for volleyball. For majors and minors only. (Fall, odd years)

PETH 117. ProAct — Basketball 1 hour

Development of professional skills including performance and teaching techniques for basketball. For majors and minors only. (Spring, even years)

PETH 118. ProAct — Floor Hockey 1 hour

Development of professional skills including performance and teaching techniques for floor hockey. For majors and minors only. (Spring, even years)

PETH 119. ProAct — Soccer 1 hour

Development of professional skills including performance and teaching techniques for soccer. For majors and minors only. (Spring, even years)

PETH 210. Aerobic-Exercise Instructor Training 2 hours

A course that combines the theory and practical aspects of aerobic exercise programs. Knowledge and skills will be the focus, with students developing and teaching their own aerobic routines as a demonstration of their understanding and skills of sound aerobic principles. Aerobic certification will be available.

PETH 214. ProAct — Tennis 1 hour

Development of professional skills including performance and teaching techniques for tennis. For HPER majors and minors only. (Fall, even years)

PETH 215. ProAct — Golf 1 hour

Development of professional skills including performance and teaching techniques for golf. For HPER majors and minors only. (Fall, even years)

- PETH 216. ProAct — Conditioning** **1 hour**
 Development of professional skills including performance and teaching techniques for conditioning. For HPER majors and minors only. (Fall, even years)
- PETH 217. ProAct — Badminton** **1 hour**
 Development of professional skills including performance and teaching techniques for badminton. For HPER majors and minors only. (Spring, odd years)
- PETH 218. ProAct — Track and Field** **1 hour**
 Development of professional skills including performance and teaching techniques for track and field. For HPER majors and minors only. (Spring, odd years)
- PETH 219. ProAct — Gymnastics** **1 hour**
 Development of professional skills including performance and teaching techniques for gymnastics. For HPER majors and minors only. (Spring, odd years)
- PETH 265, 266. Officiating Sports Analysis** **2,2 hours**
 An introduction to administration of and participation in the organization of officiating in team and individual recreational activities. (Fall, Spring)
- PETH 314. Kinesiology** **3 hours**
 Prerequisite: BIOL 101-102 or equivalent.
 A study of the anatomical and mechanical variables influencing human motion for efficient, safe, and effective movement. The historical impact of leaders in physical education is studied. (Fall)
- PETH 315. Physiology of Exercise (W)** **4 hours**
 Prerequisite: BIOL 101-102 or equivalent.
 Emphasizing the physiological effects of muscular exercise, aerobics, and physical conditioning. Significance of these effects for health, skilled performance, and prevention of disease. Oral presentation required. (Spring)
- PETH 363. An Introduction to Measurements and Research of Physical Education** **3 hours**
 A survey of tests used in Physical Education and an introduction to statistical procedures for analyzing data and how it may be applied to research. History of physical education is also dealt with briefly. (Fall)
- PETH 364. Principles and Administration of Physical Education and Recreation** **3 hours**
 An integrated study of the principles and administrative concepts of Physical Education and Recreation with emphasis in management needs and skills. (Spring)
- PETH 374. Motor Learning and Development** **2 hours**
 A course of study designed to examine motor development and motor behavior as it relates to an individual's maturation process, with emphasis placed on implications for the physical educator. (Fall)
- PETH 437. Adaptive Physical Education** **2 hours**
 A course designed to develop an understanding of neurodevelopment and functional ability, of impairments and their implications for motor performance. Emphasis on teaching progressions and exercise programs for special populations. (Fall)

PETH 463. Physical Education in the Elementary School 2 hours

A course of study designed to acquaint students with the unique aspects of physical education and the adolescent. Special activities include teaching and observation in an elementary school.

PETH 474. Psychology and Sociology of Sports . 2 hours

An exploration of sports and their involving impact on American culture. Special attention is given to current issues in sports as they relate to the individual in society. (Spring)

PETH 490. Senior Comprehensive Seminar 1 hour

A course of study designed to prepare the student for the exit exam. Special attention is given to concepts, practical applications, and administrative responsibilities within the profession. This course will be on a pass/fail basis.

PETH 295/495. Directed Study (W) 1-3 hours

For Physical Education majors or minors only. Gives the student the opportunity to pursue knowledge in an area of interest related to health, PE, or recreation. Approval by Department Chair required.

EDUCATION

EDUC 438. Curriculum and Content Methods/
Health and Physical Education
1 hour

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performance.

(F-3) (G-3) (W) See pages 25-29 for explanation of General Education requirements.

HISTORY

Chair: Benjamin McArthur

Faculty: Dennis Pettibone, Mark Peach

History is the study of the human experience. It investigates mankind's ideas, institutions, and activities. In pursuing this investigation, history courses at Southern College emphasize the Christian view of humanity. This perspective recognizes both the potential and the limitation of human endeavor and thereby permits a broader comprehension of the past and a greater hope for the future.

Approval of study programs for history majors. Departmental approval is necessary for all programs. A student majoring in history must plan his/her entire study program with a member of the history faculty. Approval is then considered on an individual basis and is granted on the following conditions:

1. Compliance with graduation requirements as explained elsewhere in the CATALOG.
2. Fulfillment of the professional and individual needs of the student.
3. Embodiment of academic balance and continuity.
4. Completion of senior year assessment.

ASSESSMENT

Assessment of seniors consists of two parts. First, in the spring semester of their senior year students will take the ETS Major Field Achievement Test in history. Second, at the end of the fall or early in the spring semester, students will take a departmental exam. Preparation for this exam will include a one-hour independent study course (normally taken during the fall of the senior year) involving: 1) reading a selected few classics of historical literature; 2) reviewing one's history coursework utilizing several thematic questions provided by the history faculty.

The subsequent examination will be in the form of a one-hour interview of the candidate by the history faculty. This will be based on the above-mentioned materials and also on the student's portfolio of major papers accumulated during his/her history coursework. The oral examination is graded on an Honors, Pass, or Fail basis. A failure requires further preparation by the student and another interview before graduation.

BACHELOR OF ARTS DEGREE IN HISTORY

Major—History (31 Hours)

<u>Required Courses</u>	<u>Hours</u>
HIST 154, 155 Amer History & Instit	6
HIST 174, 175 World Civilizations	6
HIST 490 Senior Exam Preparation	1
HIST 499 Research Methods in History	3

Six hours of political science may apply to the major.

<u>Require 2 Courses [at least] from:</u>		<u>Hours</u>	<u>Require 2 Courses [at least] from:</u>		<u>Hours</u>
<i>(American History)</i>			<i>(European History)</i>		
HIST 353	From Colony to Nation	3	HIST 374	History of England	3
HIST 354	Latin America	3	HIST 375	Ancient World	3
HIST 355	History of the South	3	HIST 386	Rise of the West	3
HIST 356	Natives and Strangers	3	HIST 389	Vienna to Vietnam	3
HIST 357	Modern America	3	HIST 471	Classics of Western Thought I	3
HIST 359	Trans of American Culture	3	HIST 472	Classics of Western Thought II	3
PLSC 254	Amer Nat & State Gov	3	PLSC 389	Vienna to Vietnam	3
PLSC 353	From Colony to Nation	3	PLSC 471	Classics of Western Thought I	3
PLSC 357	Modern America	3	PLSC 472	Classics of Western Thought II	3
			HIST 364	Christian Church I	
			OR		3
			HIST 365	Christian Church II	

<u>Required Cognates</u>	<u>Hours</u>	<u>Require 1 of the following:</u>	<u>Hours</u>
Inter Level of Foreign Lang	6	ECON 224	Principles of Economics
		ECON 225	Principles of Economics
		GEOG 204	World Geography

Upper division history classes seek to improve skills of writing and speech. All such classes required analytical writing as part of the coursework. Additionally, many classes involve discussion and oral class reports as partial basis for the student's grade, most notably HIST 499, Research Methods in History, which requires an extended formal presentation of student research.

Sample Freshman Year Sequence B.A. History

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
ENGL 101	College Composition	3	ENGL 102	College Composition	3
HIST 154	American History	3	HIST 155	American History	3
	Area B, Religion	3		Area A-2, Mathematics	0-3
	Area F, Behav/Family/ Health Science	3		Area F, Behav/Family/ Health Science	2
	Area D, Lit/Fine Art			Area D, Lit/Fine Art	
	OR	3		OR	3
	Area D-1, Beg For Lang			Area D-1, Beg For Lang	
		15		Electives	5-2
					16

Minor—History (18 Hours)

<u>Required Courses</u>	<u>Hours</u>
HIST 174	World Civilizations
HIST 175	World Civilizations

The additional twelve hours will be chosen from remaining history courses, six hours of which must be upper division. A minimum of three hours must be chosen from each of the American and European areas. Three hours of political science may be taken in lieu of three hours of history. A student planning to minor in history in order to obtain a second teaching area for denominational certification must take all eighteen hours in history and must include HIST 154, 155.

Minor—Political Economy (18 Hours)

Combines an interdisciplinary selection of courses helpful for law school preparation. For a further description of this pre-law preparation program, see page 222.

History as a preprofessional degree: A student majoring in history who plans to enter a professional school in an area such as medicine or law must present a balanced program of general education classes and electives that will support the professional objectives.

History as a preparation for teaching: A student majoring in history who plans to prepare for secondary teacher certification must include six hours upper division Political Science in the major and must also take PLSC 224, 254; and GEOG 204. It is strongly recommended that the student also earn teaching credentials in a field outside of history. No specific supporting field is required but art, behavioral science, business, English, modern languages, and religion are recognized as intimately related to the study of history. A student may receive denominational certification to teach history as a second area by completing a minor in history (see under Minor below). Since the entire second semester of the senior year is devoted to certification requirements, students earning teacher certification must finish all history classwork before reaching the final semester. Students applying for teacher certification must consult with the Education Department to draft a schedule of classes meeting certification requirements.

Before the end of the sophomore year the student must apply to the Department of Education for admission to the Teacher Education Program. Before the end of the junior year, the student must apply to the Department of Education for admission to the professional semester.

History Department tours: The Department of History regularly sponsors study tours to foreign countries. The purpose of these tours is to provide students and other participants with an enhanced understanding of history and culture through a combination of traditional lecture and reading with direct observation of historical sites. Academic activities connected with the tours require students to spend an amount of time equal to that expected in a regular classroom setting. Preparatory meetings and assigned reading are included in this computation. Course credit is offered under HIST 295/495 Directed Study in History. Cost of the tours includes charge for academic credit.

History as general education: Freshman and sophomore students earning general education credit in history should take courses from the 100 and 200 level. Junior and senior students meeting general education requirements in history should select courses from the 300 and 400 level.

HISTORY

HIST 154, 155. American History and Institutions (C-1) 3,3 hours

An introductory survey of the nation from colonial times to the present. The development of its politics, government and social institutions is covered in each semester of the sequence. This course is recommended as general education for freshmen and sophomores. (Fall, Spring, Summer)

- HIST 174, 175. World Civilizations (C-1)** **3,3 hours**
A study of the development of Western and non-Western culture and government, emphasizing the evolution of European society and its interaction with non-European civilizations. This course is recommended as general education for freshmen and sophomores.
- HIST 353. From Colony to Nation (C-1) (W)** **3 hours**
A detailed survey of American political and social history from 1607 to 1800, including the founding of the thirteen colonies, the American Revolution, and the establishment of the new nation.
- HIST 354. Latin America (C-1) (W)** **3 hours**
A survey of Latin America offering brief backgrounds from the colonial, independence, and early national periods, but focusing on twentieth-century trends in selected republics. Arranged with instructor.
- HIST 355. History of the South (C-1) (W)** **3 hours**
A study of the American South from the Early National period through Reconstruction. Prominent issues will include slavery, sectionalism, the Civil War, and Reconstruction.
- HIST 356. Natives and Strangers (C-1) (W)** **3 hours**
A study of immigration and the role of ethnic groups in American society. Special emphasis on the tension between assimilation and pluralism in the national character.
- HIST 357. Modern America (C-1) (W)** **3 hours**
A study of American History from 1900 on with special examination of the progressive era, normalcy, the depression, the New Deal, and the role of the United States in world affairs. (Fall)
- HIST 359. Transformation of American Culture (C-1) (W)** **3 hours**
A topical approach to nineteenth and twentieth-century American history, focusing on the modernization of life. Among the topics that may be covered are entertainment, the media, urban culture, social relations, transportation, and art and architecture.
- HIST 364. Christian Church I: From the Early Church Through the Middle Ages (C-1) (W)** **3 hours**
A study of the history of western Christianity from the end of the apostolic period to the end of the Middle Ages, emphasizing both institutional and theological development. (Fall)
- HIST 365. Christian Church II: From the Reformation Through the Twentieth Century (C-1) (W)** **3 hours**
A study of the reorientation of western Christianity, beginning with the Protestant Reformation and culminating with contemporary religious trends. (Spring)
- HIST 374. History of England (C-1) (W)** **3 hours**
A survey of the history of Great Britain from Roman times to the twentieth century, emphasizing political, cultural, and economic developments which have influenced western civilization as a whole.
- HIST 375. Ancient World (C-1) (W)** **3 hours**
A study of the three stages of ancient civilization, the Ancient Near East, Greece, Rome, and the contribution each has made to the development of western culture.

HIST 386. Rise of the West (C-1) (W) 3 hours

A study of European history from the fall of Rome to the beginning of the modern age, focusing on those developments which have influenced the institutions and values of modern western civilization. The chronological emphasis is on the eleventh through the sixteenth centuries.

HIST 389. Vienna to Vietnam (C-1) (W) 3 hours

A study of major historical developments affecting international relations since the Napoleonic Era. The class treats antithetical forces such as peace and war, power and weakness, sovereignty and dependence, as well as others, in their historical setting. Students may earn either history or political science credit, depending on individual assignments.

HIST 465. Topics in History (C-1) (W) 3 hours

Selected topics in history presented in classroom setting. Subjects covered will determine whether credit is granted in Area I or Area II. This course may be repeated for credit.

HIST 471. Classics of Western Thought I (C-1) (W) 3 hours

A study of the key thinkers in western thought from the Heroic Age of Greece to the Renaissance. Reading from original sources, this class will emphasize the discussion and analysis of ideas that have formed the basis of western thought. Included in the readings are selections from Herodotus, Cicero, St. Augustine, Boccaccio, Montaigne, and St. Ignatius of Loyola.

HIST 472. Classics of Western Thought II (C-1) (W) 3 hours

A study of the key thinkers in the nineteenth and twentieth centuries. Reading from original sources, this class will emphasize discussion of critical ideas that have effected the evolution of contemporary social and political thought. Included in the readings are selections from Locke, Mill, Marx, Nietzsche, Lenin, and Hitler.

HIST 490. Senior Exam Preparation 1 hour

Independent study and reading in preparation for the assessment exam taken by senior history majors.

HIST 295/495. Directed Study (C-1) (W) 1-3 hours

A course emphasizing individual directed study. The instructor to whom a student is assigned will determine whether credit is upper or lower division. This course also includes credit offered by the History Department on directed study tours. Writing emphasis credit for HIST 495 only. Approval of the department is required prior to registration.

HIST 499. Research Methods in History (C-1) (W) 3 hours

Historical theories, procedures, and research methods are examined in conjunction with the preparation of a research project. (Fall)

POLITICAL SCIENCE

PLSC 224. Macroeconomics 3 hours

See ECON 224 for course description.

PLSC 254. American National and State Government (C-2) 3 hours

An examination of the operation of the executive, legislative, and judicial branches of government of the national, state, and local levels.

PLSC 353. From Colony to Nation (C-2) (W) 3 hours

See HIST 353 for course description.

- PLSC 357. Modern America (C-2) (W)** 3 hours
See HIST 357 for course description.
- PLSC 389. Vienna to Vietnam (C-2) (W)** 3 hours
See HIST 389 for course description.
- PLSC 465. Topics in Political Science (C-2)** 3 hours
See HIST 465 for course description.
- PLSC 471. Classics of Western Thought I (C-2) (W)** 3 hours
See HIST 471 for course description.
- PLSC 472. Classics of Western Thought II (C-2) (W)** 3 hours
See HIST 472 for course description.

GEOGRAPHY

- GEOG 204. World Geography** 3 hours
(C-2 credit for elementary education majors only).
Maps, land forms, soil, mineral resources, weather, and climate are considered.
Man's adjustment to various physiographic regions is studied. (Fall)
- GEOG 306. Cultural Geography (C-2)** 3 hours
A course for student missionaries assigned to a country other than the United States. Focuses on geographic and social characteristics. Activities include assigned reading prior to departure, journal of on-site observations, formal paper after return to campus. Prior to departure, the student will make all arrangements with a teacher assigned by the Department of History. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 236.

EDUCATION

- EDUC 438. Curriculum and Content Methods/History** 1 hour
Prerequisite: Admission to Teacher Education.
Attention is given to methods and materials of instruction, planning, testing, and evaluating student performances, and the survey and evaluation of textbooks.
- (C-1) (C-2) (W) See pages 25-29 for explanation of General Education requirements.

INDUSTRIAL TECHNOLOGY

Chair: Dale Walters

Faculty: John Durichek, Kenneth Reynolds

Adjunct Faculty: Mark McGrath

Courses are offered which provide opportunity to balance learning with practical experience in the areas of woods, metals, printing, drafting, and auto maintenance. Objectives of these classes are:

1. To assist the student in growing toward his potential by providing classroom and lab experiences that nurture creativity.
2. To help the student learn to meet the challenges of daily living by providing "hands-on" experiences with elements of the environment.
3. To develop practical skills which will be useful throughout life as hobby and recreational activities as well as professional enhancement.
4. To provide opportunity for the student to develop tactile learning skills.
5. To introduce the student to opportunities in technical and service occupations.
6. To provide background for entrance into specialized technical and professional degree programs and occupations.

ASSESSMENT

All students will be given the NIASE (National Institute of Automotive Service Excellence) certification exams as specified by the department. Students who pass the exams become eligible for ASE certification after two years of experience following their training. The results of the exams are used to evaluate class offerings, teaching effectiveness, and program requirements.

Minor—Technology (18 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
TECH 111	Painting and Refinishing	3	TECH 167	Suspension, Steering & Align	3
TECH 112	Painting and Refinishing	3	TECH 223	Auto Body Repair	3
TECH 164	Automotive Maintenance	2	TECH 264	Automotive Repair	3
TECH 166	Auto Electrical Systems	2		Upper Division Courses	6

CERTIFICATE PROGRAMS

Auto Body Technician

The auto body program is designed to teach panel repair, refinishing, estimating, frame straightening, and major collision repair. The typical student upon completion of the course should have gained sufficient skill and experience to obtain employment in the trade.

Inasmuch as technicians provide their own hand and air tools, the student will be expected to purchase a skeleton set for personal use during the course. The department will assist the student in the purchase of these tools which will cost approximately \$350.

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
TECH 110	Panel and Spot Repair	4	TECH 120	Collision Repair III	5
TECH 111-112	Painting and Refinishing	6	TECH 167	Suspension, Steering, Align	3
TECH 114	Oxy-Acetylene Welding	1	TECH 264	Automotive Repair	3
TECH 115	Arc Welding	2		Area B-1, Bib Studies	
TECH 116	Collision Repair I	4		OR	3
TECH 118	Collision Repair II	5		Area B-2, Religion	

Sequence of Courses Auto Body Technician

A program which provides intensive exposure and correlated experience in various facets of auto body repair.

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
TECH 111	Painting & Refinish. I	3	TECH 118	Collision Repair II	5
TECH 110	Panel & Spot Repair	4	TECH 120	Collision Repair III	5
TECH 115	Arc Welding	2	TECH 112	Painting & Refin II	3
TECH 116	Collision Repair I	4	TECH 114	Oxy Acetylene Welding	1
TECH 264	Auto Repair	3	TECH 167	Suspension, Steering, Align	3
	Area B, Religion	3			17
		<u>19</u>			

At the end of the second semester and after nearly 1,000 hours of instruction and lab time the successful student will have skills to do:

- (1) Major collision repair
- (2) Frame alignment
- (3) Job estimating
- (4) Complete repaint work
- (5) Power plant and drive train repair

A certificate will be awarded upon satisfactory completion of 900 plus hours of instruction and lab time and the NIASE exam.

In addition to introductory repair projects, each student will be involved in at least three major collision repair projects.

Enrollment in the Auto Body Technician Program is limited.

Auto Mechanics Technician

The auto mechanics technician program is designed to teach an awareness of and proficiency in repairing engines, transmission/transaxles, drivetrain/axles, heat/air conditioning, electrical, engine computers and fuel injection systems. The typical student upon completion of the course should have gained sufficient skill and experience to obtain employment in the trade.

Inasmuch as technicians provide their own hand and air tools, the student will be encouraged to purchase a basic set.

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
TECH 114	Oxy-Acetylene Welding	1	TECH 177	Engine Fuel & Emission Cont	4
TECH 115	Arc Welding	2	TECH 178	Heating & Air Conditioning	2
TECH 166	Auto Electrical Systems	2	TECH 264	Automotive Repair	3
TECH 168	Manual Drive Train	3		Area B-1, Bib Studies	
TECH 167	Suspension, Steering, Align	3		OR	3
TECH 175	Engine Rebuilding & Machining	4		Area B-2, Religion	
TECH 176	Engine Perform & Computers	5			

**Sequence of Courses
Auto Mechanics Technician**

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
TECH 115	Arc Welding	2	TECH 114	Oxy-Acetylene Weld	1
TECH 166	Auto Elect Systems	2	TECH 167	Suspension & Align	3
TECH 168	Manual Drive Train	3	TECH 175	Engine Rebuild/Mech	4
TECH 178	Heat & Air Conditioning	2	TECH 176	Engine Perform & Comp	5
TECH 264	Auto Repair	3	TECH 177	Engine Fuel & Emission Sys	4
	Area B, Religion	3			17
		15			

Students will be working on projects in a live operating repair shop environment.

At the end of the second semester they will complete approximately 1,000 hours of instruction and lab time, and if successful, will have skills to do:

1. Major engine repair
2. Driveability diagnosis and computer systems repair
3. Both 2 and 4 wheel alignment
4. Manual transmissions and drivetrain
5. Electrical diagnosis and repair
6. Heating and air conditioning service

A certificate will be awarded upon satisfactory completion of 900 plus hours of instruction and lab time and the NIASE exam.

Enrollment in the Auto Mechanics Technician Program is limited.

AFFILIATION PROGRAM

Students wishing a Bachelor of Technology degree in Graphic Arts or Technical Plant Services may take the following classes and transfer to Andrews University after one year:

<u>B.T. Graphic Arts</u>		<u>Hours</u>	<u>B.T. Technical Plant Services</u>		<u>Hours</u>
TECH 295	Directed Study	1-3	CPTC 249	Computer-Aided Drafting	3
ART 104	Beginning Drawing I	2	ENGL 101	College Composition	3
ART 109	Publications Design	3	RELT 255	Christian Beliefs	3
CPTC 245	Computer-Aided Publishing	3	SOCI 125	Intro to Sociology	3
CPTR 105	Intro to Word Processing	1	SPCH 135	Intro to Public Speaking	3
CPTR 106	Intro to Spreadsheets	1	TECH 114	Oxy-Acetylene Welding	1
CPTR 107	Intro to Data Base	1	TECH 115	Arc Welding	2
ENGL 101	College Composition	3	TECH 149	Mechanical Drawing	2
JOUR 225	Intro to Photography	3	TECH 154	Woodworking	3
RELT 255	Christian Beliefs	3	TECH 174	General Metals	3
SOCI 125	Intro to Sociology	3	TECH 183	Basic Electronics	3
SPCH 135	Intro to Public Speaking	3	TECH 223	Auto Body Repair	3
TECH 145	Intro to Graphic Arts	3	TECH 264	Automotive Repair	3
TECH 149	Mechanical Drawing	2			

TECHNOLOGY

TECH 101. Technology Awareness

2 hours

This course is designed so that the student will become better acquainted with the field of technology. Emphasis is directed toward but not limited to the area of industrial technology, current and future developments in the industry and their impact on society. Along with an awareness of the qualifications to enter today's technological job market, special attention will be given to the training available at Southern and other SDA institutions. Open to all students.

TECH 110. Panel and Spot Repair**4 hours**

Course is the first introduction to body repair. Student will learn how to straighten small dents, prepare panel for body fillers, prime and block ready for painting. Hand tool costs average \$200. (Fall)

TECH 111-112. Painting and Refinishing**3,3 hours**

An introductory study of vehicle preparation and painting. Student will progress to doing complete refinish job himself. Student must purchase his own respirator and spray gun. Costs average \$200. (Fall, Spring)

TECH 114. Oxy-Acetylene Welding**1 hour**

Gas welding and brazing of sheet metal in preparation for typical body shop welding jobs. Personal goggles required. Certain specialized welding processes will be taught, such as tig, cast iron, or others to be arranged on an individual basis. A lab fee of \$10 is charged. (Spring)

TECH 115. Arc Welding**2 hours**

A class designed to give basic understanding of arc welding processes. Emphasis will be given to MIG, TIG, Heliarc, as well as conventional stick welding. Each student must purchase safety glasses and welding gloves. A lab fee of \$15 is charged. (Fall)

TECH 116. Collision Repair I**4 hours**

Introduction to a major collision job. Students will probably work in pairs. Body alignment, frame straightening, panel replacement, and dent repair are involved. (Fall)

TECH 118. Collision Repair II**5 hours**

Continuation of experience in collision repair, emphasizing body alignment, frame straightening, glass work, fiberglass repair, and body section replacement. There is no lecture component to this class, but rather is composed of four three periods laboratory per week. (Spring)

TECH 120. Collision Repair III**5 hours**

A repetition of work experiences of Collision Repair I and II, but on an individual basis. Students will learn estimate writing, parts and supplies purchasing, shop management, and equipment maintenance. (Spring)

TECH 145. Introduction to Graphic Arts (G-2)**3 hours**

Special emphasis is given to offset methods of copy preparation, camera techniques, platemaking, screen printing, and press work. Experience is offered in personal computer desktop publishing. Skills learned are applicable for personal and business communications. A supplies fee will be charged for projects produced in class. Average cost of projects approximately \$75. (Fall)

TECH 149. Mechanical Drawing (G-2)**2 hours**

A basic course in drafting, training the student in the use of instruments and the principles of orthographic projection, surface development, sectioning, pictorial representation, and dimensioned working drawings. Six periods of laboratory each week. Lecture as announced by the instructor. Instruments cost approximately \$75. (Fall)

TECH 151. Architectural Drafting**3 hours**

An introduction to skills and basic knowledge of architectural drafting. Emphasis is on lettering, orthographic projection, parallel line pictorial drawings, shades and shadows, and perspective drawing. Instruments cost approximately \$60. Open to all students.

TECH 154. Woodworking (G-2)**3 hours**

A study of hand and machine tools, joinery, and proper methods of furniture construction. One period lecture, six periods laboratory each week. A supplies fee will be charged for the cost of the materials used in project construction. Generally, the costs have not exceeded \$225. (Spring)

TECH 164. Automotive Maintenance (G-2)**2 hours**

A course designed to help the car owner become knowledgeable in the matters of buying, servicing, and maintaining the auto. The student will work on his own car or on one belonging to the shop. One period lecture and three periods laboratory each week. (Fall)

TECH 166. Auto Electrical Systems**2 hours**

A course designed to give a basic understanding of automotive electrical systems. Basic electrical principles and trouble shooting techniques will be taught. Emphasis will be given to lighting, charging, starting and accessory systems. One period lecture, three periods lab per week.

TECH 167. Suspension, Steering and Alignment**3 hours**

A course designed to give understanding of automotive suspension and steering systems. Chassis service, repair, and trouble shooting will be taught. Alignment of both two and four wheel alignment systems will be taught. One and a half period lecture and four and a half labs per week.

TECH 168. Manual Drive Train, Axles and Brakes**3 hours**

A study of manual drive train operation, diagnosis and repair. Clutches, manual transmissions and transaxles. Brake system operation and repair of both conventional and ABS brake systems will be taught.

TECH 174. General Metals (G-2)**3 hours**

Designed to acquaint the student with the many aspects of working with metals. Instruction will be given in the areas of forging, foundry, sheet metal, welding, plus hand and power-operated metal-cutting equipment. One period lecture and six periods laboratory each week. Project expenses average \$50. Each student must purchase his own safety glasses, welding gloves and goggles. (Spring, alternate years)

TECH 175. Engine Rebuilding and Machining**4 hours**

A course designed to acquaint the student with major engine diagnosis, decision making and overhaul procedures. Machining and measuring processes related to engine rebuilding will be taught. Each student will be required to rebuild an engine and do engine machine work. Two periods lecture, six periods of lab per week.

TECH 176. Engine Performance and Computers**5 hours**

Electronic and computerized ignition systems operating theory will be emphasized. Each student will be taught driveability diagnosis and trouble shooting techniques for electronic and computerized systems. Hands on diagnosis practice using diagnostic equipment on live vehicles will be given. Two periods of lecture, nine hours of lab per week.

TECH 177. Engine Fuel and Emission Controls**4 hours**

Both carburetor and fuel injection operation theory, and standard and electronic carburetion systems theory will be covered. Fuel injection diagnosis and repair as well as carburetor overhaul procedures will be taught. Emission control operation as well as trouble shooting and service procedures will be taught. Two periods of lecture, six periods lab per week.

TECH 178. Heating and Air Conditioning 2 hours

A course designed to teach the principles of heating and air conditioning systems. Emphasis will be given to service and trouble shooting of manual and automatic heating systems of late model cars. One period lecture, three periods lab per week.

TECH 183. Basic Electronics 3 hours

An introductory course to the properties of electricity/electronics as they pertain to AC and DC electrical circuits and devices such as diodes, transistors and integrated circuits. Intended to introduce the beginning student to the field of electronics. Two three-hour lecture/labs each week.

TECH 223. Auto Body Repair (G-2) 3 hours

An introductory course designed to acquaint the student with the principles and techniques used in repair of damaged body panels. Preferences will be given for class admission to those who have experience in doing automotive work and who have gas welding skills. Each student will need his own basic hand tools which cost approximately \$100. One period lecture and six periods laboratory per week. (Spring, alternate years)

TECH 254/354. Furniture Design and Construction 3 hours

Prerequisite: TECH 154.

Emphasis will be placed on the design process as it pertains to woods and its combination with other materials. Two three-hour lecture/labs each week. (Available upon request)

TECH 264/364. Automotive Repair (G-2) 3 hours

Prerequisite: TECH 164.

A course designed to give basic understanding of the automobile. Main emphasis is given to power plant and drive train design, operation and service. One period lecture and three periods laboratory each week. All lab learning experience is on actual cars either from the community or personal vehicles.

TECH 376. Automation and Robotics 4 hours

See CPTE 376 for course description.

TECH 295/495. Directed Study 1-3 hours

The study of a specific problem in the field of Technology. A written report of the problem may be required by the supervising instructor. Open only to those earning a minor in Technology. Offered on demand. (Fall, Spring)

(G-2) See pages 25-29 for explanation of General Education requirements.

JOURNALISM AND COMMUNICATION

Chair: Pam Harris

Faculty: Volker Henning, Lynn Sauls

Adjunct Faculty: Wesley Hasden, Paul Vaudreuil, Billy Weeks,
Kevin West

The Department of Journalism and Communication provides an educational environment in which future leaders in journalism, public relations and related areas can acquire the enduring ethical concepts, the intellectual discipline and the professional abilities necessary to the mastery and management of a wide range of writing, editing and other journalistic and public relations skills and techniques.

The department offers the Bachelor of Arts Degree with majors in Journalism (News Editorial), Broadcast Journalism, and Public Relations, and an Associate of Science Degree in Media Technology. Minors are also available in each of these areas as well as Advertising and Sales.

The Journalism (News Editorial) major prepares students for careers as reporters, writers and editors for daily and weekly newspapers, magazines, wire services, publishing houses and for the vast array of publications that serve the church, business, industry, governmental agencies, the medical field, colleges and universities and other non-profit organizations.

Students enrolling in the Broadcast Journalism major receive preparation for careers in both commercial and public radio and television as reporters, writers and editors in news and public affairs operations.

Public Relations majors are prepared for careers in every major segment of business, industry, government, the church, colleges, universities, hospitals and other medical institutions, and in a wide range of organizations.

The Journalism major, Broadcast Journalism major, and the Public Relations major also prepare students for entry into graduate schools nationwide.

The associate degree in Media Technology prepares the student for entry level positions in media production and operation or desk-top publishing.

The Advertising minor combined with such majors as Public Relations prepares students for careers in advertising copywriting, advertising design (when coupled with a second minor in Art), and creative directing.

The Sales minor combined with a Broadcast major prepares the student for jobs in the sale of commercials as well as in station development. By adding the Sales minor, a student multiplies job opportunities in the field of Broadcasting.

Students who select both a major and minor within the department must also take a minor outside the department.

Members of the faculty will advise each student in planning a study program that is supportive of individual career goals, that meets degree requirements of the Department of Journalism and Communication, including the intermediate level of a foreign language, and fulfills General Education requirements.

INTERNSHIPS AND ON-THE-JOB TRAINING

Because of the strong relationships which the department has developed with the Chattanooga area mass media, journalism, broadcast and public relations students have many opportunities to meet and work with professionals in television and radio news, in public relations, advertising and on daily and weekly newspapers.

Internships: Helping students locate internships on newspapers, in publishing houses, in public relations and fund development departments, in advertising agencies, and in radio and television newsrooms is a vital part of the education program provided by the department.

A Journalism Professional Advisory Council works with the department to provide internships that give on-the-job experience. The department also participates in the General Conference internship program in which students work in various denominational institutions. The college radio station, WSMC FM90.5 (NPR 90) and the community newspaper, *Hamilton County News-Leader*, provide learning opportunities for students in a number of courses.

Campus Publications: Students can gain valuable experience as writers and editors by working on Student Association publications such as *Southern Accent*, the campus newspaper, and *Southern Memories*, the yearbook.

ASSESSMENT

To make satisfactory progress toward preparation for the job market, students majoring in the department will be expected to attend departmental assemblies and other professional meetings sponsored by the department.

Students should demonstrate their growing professionalism through involvement in the operation of WSMC FM90.5; in the publication of the *Southern Accent*, *Southern Memories*, or some other publication; or in communication activities for a campus, church, or community organization.

Participation in the departmental Communication Club and the Southern Society of Adventist Communicators as well as student membership in a national professional organization such as the Society of Professional Journalists, the International Association of Business Communicators, or the Public Relations Student Society of America are also evidences of professional commitment.

A cumulative evaluation form will be kept in departmental files for each student majoring in the department. This form will serve as a source of information for teachers asked to provide recommendations for students seeking practicums, internships, or job positions. Information concerning evidence of professional growth and achievement will be added annually and a copy of the form shared with the student.

Students in the department will be given a writing skills test when they take JOUR 103, Introduction to Mass Communication, and JOUR 205, News Reporting. On the basis of the results, advisers will recommend any needed remediation, which students must complete before registering for other writing courses offered by the department. Another form of the writing skills test will be administered when students in the department take

JOUR 314, Broadcast News Writing, JOUR 356, Advanced Reporting, or PREL 365, Public Relations Techniques. Results of the test will be part of the information in a student's cumulative evaluation form.

Departmental effectiveness will be assessed by combining the results of the cumulative evaluations, student evaluations of courses, questionnaires completed by seniors near the time of graduation and again three years afterwards, questionnaires completed by supervisors of interns. An ongoing analysis of outlines of courses required for majors is made by the faculty to determine that the curriculum meets the objectives of the department and the standards of the Accrediting Council of Education in Journalism and Mass Communication.

PROGRAMS IN JOURNALISM, BROADCAST JOURNALISM, ADVERTISING, SALES, PUBLIC RELATIONS, AND MEDIA TECHNOLOGY

Major—B.A. Journalism (News Editorial) (30 hours)

(With a minor selected outside the Journalism and Communication Department)

Required Courses		Hours	Required Cognates		Hours
JOUR 103	Intro to Mass Communication	3	ART 109	Publications Design	3
JOUR 205	News Reporting	3	CPT 245	Computer-Aided Publishing	3
JOUR 212	Copyediting	2	ECON 213	Survey of Economics	3
JOUR 314	Broadcast News Writing	3	PLSC 254	American Nat & State Gov	3
JOUR 315	Advanced Photography	2		Literature Elective	3
JOUR 316	Mag & Feature Art Writing			Music/Art Appreciation Elect	3
	OR	3		Inter level Foreign language	6
JOUR 495	Honors Project				
JOUR 356	Advanced Reporting	3	Recommended Electives		
JOUR 427	Mass Media Law & Ethics	3	ART 219	Intro to Computer Graphics	3
JOUR 487	Hist of Mass Communication	3	JOUR 497	Journalism Internship	3
JOUR 488	Mass Communication & Society	3	MATH 215	Statistics	3
	Department Electives	2	PREL 234	Public Rel Princ & Theory	2
			TECH 145	Intro to Graphic Arts	3

Complete at least 12 hours in three or more of the following areas: Behavioral Science, Business and Economics, Education, Health Science, History and Political Science, Literature and Fine Arts, Natural Science, Recreation and Physical Education, Religion, and Technology.

Sample Freshman Year Sequence

B.A. Journalism (NEWS EDITORIAL)

1st Semester		Hours	2nd Semester		Hours
ENGL 101	College Composition	3	ENGL 102	College Composition	3
CPT 245	Computer-Aided Publishing	3	JOUR 125	Intro to Photography	3
JOUR 103	Intro to Mass Com	3		(if needed)	
	Area D-1, Inter Foreign Lang	3	JOUR 205	News Reporting	3
	Area B, Religion	3		Area D-1, Inter F Lang	3
		15		Gen Ed, Minor or Elect	4
					16

Major—B.A. Broadcast Journalism (30 Hours)*(With a minor selected from outside the Journalism and Communication Department)*

<u>Required Courses</u>		<u>Hours</u>	<u>6 Hours From</u>		
JOUR 103	Intro to Mass Communication	3	JOUR 315	Advanced Photography	3
JOUR 205	News Reporting	3	JOUR 227/327	Video Production	3
JOUR 201	Foundations of Broadcasting	3	JOUR 356	Advanced Reporting	3
JOUR 302	Broadcasting Techniques	3	JOUR 423	Broadcast Programming	3
JOUR 314	Broadcast News Writing	3	JOUR 497	Internship: Broadcasting	3
JOUR 317	Broadcast Management	3			
JOUR 427	Mass Media Law and Ethics	3			
JOUR 487	History of Mass Communication				
	OR	3			
JOUR 488	Mass Communication & Society				

<u>Required Cognates</u>			<u>Recommended Electives</u>		
BMKT 326	Introduction to Marketing	3	HMNT 205	Arts and Ideas	3
PLSC 254	Amer National & State Gover	3	MATH 215	Statistics	3
PREL 234	Pub Rel Principles and Theory	2	TECH 183	Basic Electronics	3
SPCH 236	Oral Interpretation		CPTB 245/345	Computer-Aided Publishing	3
	OR	3			
SPCH 135	Introduction to Public Speaking				
	Inter level of a foreign lang	6			

Sample Freshman Year Sequence
B.A. Broadcast Journalism

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
ENGL 101	College Composition	3	ENGL 102	College Composition	3
JOUR 103	Intro to Mass Com	3	JOUR 201	Found of Broadcast	3
	Area D-1, Int For Lang	3	JOUR 205	News Reporting	3
	Area B, Religion	3		Area D-1, Int For Lang	3
	Gen Ed, Minor or Elect	3		Gen Ed, Minor or Elective	4
		15			16

Major—B.A. Public Relations (31 Hours)*(With a minor selected from outside the Journalism and Communication Department)*

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
JOUR 103	Intro to Mass Communication	3	PREL 234	Pub Rel Principles and Theory	2
JOUR 205	News Reporting	3	PREL 344	Fundamentals of Advertising	3
JOUR 315	Advanced Photography	2	PREL 365	Public Relations Techniques	3
JOUR 316	Mag & Feature Article Writing	3	PREL 406	Persuasion and Propaganda	3
JOUR 356	Advanced Reporting	3	PREL 482	Public Relations Campaign	3
JOUR 427	Mass Media Law and Ethics				
	OR	3			
JOUR 488	Mass Communication and Society				

<u>Required Cognates</u>		<u>Hours</u>	<u>Recommended Electives</u>		<u>Hours</u>
ART 109	Publications Design	3	JOUR 212	Copyediting	2
BMKT 326	Intro to Marketing	3	JOUR 302	Broadcasting Techniques	3
CPTB 245	Computer-Aided Publishing	3	JOUR 314	Broadcast News Writing	3
SPCH 135	Intro to Public Speaking	3	JOUR 227/327	Video Production	3
	Inter level of foreign language	6	MATH 215	Statistics	3
	Lit or Fine Arts elective	3	PREL 368	Fund Development	3
			PREL 497	Public Relations Internship	3
			TECH 145	Introduction to Graphic Arts	3

**Sample Freshman Year Sequence
B.A. Public Relations**

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
ENGL 101	College Composition	3	ENGL 102	College Composition	3
JOUR 103	Intro to Mass Com	3	PREL 234	Public Relations Prin	2
CPTC 245	Computer-Aided Pub	3	SPCH 135	Intro to Public Speaking	3
	Area D-1, Inter Foreign Lang	3		Area D-1, Inter Foreign Lang	3
	Area B, Religion	3		Gen Ed, Minor or Elective	5
		15			16

Major—A.S. Media Technology (30 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
ART 109	Publications Design	3	JOUR 227	Video Production	3
CPTC 245	Computer-Aided Pub	3	JOUR 297	Practicum: Media Tech	2
JOUR 103	Intro to Mass Comm	3	JOUR 302	Broadcasting Techniques	3
JOUR 125	Intro to Photography	3	TECH 145	Intro to Graphic Arts	3
JOUR 201	Found of Broadcasting	3	TECH 183	Basic Electronics	3
JOUR 210	Presentation Media	1			

**Sample Freshman Year Sequence
A.S. Media Technology**

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
CPTC 245	Computer-Aided Pub	3	ART 109	Publications Design	3
ENGL 101	College Composition	3	ENGL 102	College Composition	3
JOUR 103	Intro to Mass Com	3	JOUR 201	Foundations of Broadcasting	3
JOUR 125	Intro to Photography	3	TECH 183	Basic Electronics	3
	Area B, Religion	3		Gen Ed or Elective	4
		15			16

Minor—Advertising (18-20 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Select 2-3 Hours From:</u>		
ART 109	Publications Design	3	ART 110	Design Principles	3
BMKT 326	Introduction to Marketing	3	BMKT 327	Consumer Behavior	3
CPTC 245/345	Computer-Aided Publishing	3	BMKT 423	Promotional Strategy	3
JOUR 103	Intro to Mass Communication	3	JOUR 125	Introduction to Photography	3
PREL 344	Fundamentals of Advertising	3	PREL 244	Personal Selling	2
PREL 354	Advertising Copywriting	2	PREL 297/397	Practicum: Advertising	1-3
			PREL 406	Persuasion and Propaganda	3

Minor—Journalism (News Editorial) (18 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>One of the Following:</u>		
JOUR 103	Intro to Mass Communication	3	JOUR 316	Mag & Feature Article Writing	3
JOUR 205	News Reporting	3	JOUR 356	Advanced Reporting	3
JOUR 212	Copyediting	2			
	Department Elective	1			
			<u>Two of the following:</u>		
			JOUR 427	Mass Media Law and Ethics	3
			JOUR 487	History of Mass Comm	3
			JOUR 488	Mass Commun and Society	3

Minor—Broadcast Journalism (18 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
JOUR 103	Intro to Mass Communication	3	JOUR 302	Broadcasting Techniques	3
JOUR 201	Foundations of Broadcasting	3	JOUR 314	Broadcast News Writing	3
JOUR 205	News Reporting	3			

3 Hours of Electives from Broadcast Journalism Major requirements or the following

BMKT 326	Intro to Marketing	3
PLSC 254	Amer Natl & State Gov	3
PREL 234	Pub Rel Prin and Theory	2
PREL 244	Personal Selling	2
SPCH 236	Oral Interpretation	3

Minor—Public Relations (19 or 20 Hours)

Required Courses		Hours	Required Courses, cont.		Hours
ART 109	Publications Design	3	PREL 344	Fundamentals of Advertising	2-3
JOUR 103	Intro to Mass Communication	3		OR	
JOUR 205	News Reporting	3	PREL 406	Persuasion and Propaganda	3
PREL 234	Pub Rel Prin and Theory	2	PREL 365	Public Relations Techniques	
			CPTC 345	Computer-Aided Publishing	3

Minor—Sales (19 Hours)

Required Courses		Hours	Select 3 Hours from:		
BMKT 326	Intro to Marketing	3	BMKT 328	Sales Management	3
BMKT 327	Consumer Behavior	3	BMKT 423	Promotional Strategy	3
JOUR 103	Intro to Mass Communication	3	PREL 406	Persuasion and Propaganda	3
PREL 244	Personal Selling	2	PREL 297/397	Practicum: Sales	3
PREL 344	Fundamentals of Advertising	3			
PREL 354	Advertising Copywriting	2			

JOURNALISM**JOUR 103. Introduction to Mass Communication (G-2) 3 hours**

Overview of the development and characteristics of mass media, with emphasis on media in the United States including newspapers, radio, television, photography, film, sound recording, books, magazines, advertising, public relations, and new media technology. Attention is given to theories of communication and how to be a critical and discriminating consumer of mass media.

JOUR 125. Introduction to Photography (G-1) 3 hours

Instruction in use of the camera and light meter; study of elements that constitute good photo composition, darkroom techniques involving film development, negative enlargement and print finishing. Students supply their own 35mm cameras with adjustable f-stops and shutter speeds. A limited number of rental cameras are available. Two hours of lecture, three hours of laboratory each week. Supply lab fee of \$95 charged in addition to tuition. This course does not count toward a major or minor in the Journalism and Communication Department.

JOUR 201. Foundations of Broadcasting 3 hours

Provides an understanding of broadcasting and related industries. Basic theories and practices of radio, television, cable operations, and other electronic media are covered. (Alternate years)

JOUR 205. News Reporting (G-2) 3 hours

Prerequisite: Ability to type at least 30 wpm.

News gathering and research techniques; development of newswriting skills and style. Emphasis on clarity of writing, accuracy, balance and fairness and on meeting deadlines in covering news events and interviewing news sources. Oral communication emphasis: Interviewing.

JOUR 210. Presentation Media**1 hour****Prerequisite:** CPT 245.

A laboratory course in the selection, operation, and use of presentation media. Preparation of transparencies, slides, graphics, and audio materials. (Alternate years)

JOUR 212. Copyediting**2 hours****Prerequisite:** JOUR 205 or consent of instructor.

Principles and practices of preparing copy for publication including headline writing, picture editing, and writing photo captions. Use of the Associated Press Stylebook. Focus is on accuracy, newsworthiness, language effectiveness, legality, and good taste in editing copy. (Alternate years)

JOUR 302. Broadcasting Techniques**3 hours**

Introduction to audio production in the context of the broadcast station. Instruction in the technical aspects of production for radio and television. Oral communication emphasis: Techniques in announcing for a variety of program types including commercials, news, interviews, and talk shows. (Alternate years)

JOUR 314. Broadcast News Writing (W)**3 hours****Prerequisite:** JOUR 205 or consent of instructor.

Gathering information, interviewing, writing and editing for the broadcast media. Preparation of news and feature copy for release on the college radio station; instruction in writing spot announcements. (Alternate years)

JOUR 315. Advanced Photography (G-1)**2-3 hours****Prerequisite:** JOUR 125 or equivalent.

Advanced photographic and darkroom techniques with emphasis on photojournalism, studio and corporate photography and creative use of the camera in producing photo essays, picture stories for publication and photo collections for exhibit. Print journalists will create projects using photojournalism skills while public relations majors will focus on studio and corporate photography techniques in their projects. Students supply their own cameras with adjustable f-stops and shutter speeds. One hour of lecture, three hours of laboratory each week for 2 hours credit. Students registering for 3 hours will complete extra projects and additional laboratory and field work. Supply lab fee of \$95 charged in addition to tuition.

JOUR 316. Magazine and Feature Article Writing (W)**3 hours**

Researching, writing and marketing the factual magazine piece and the newspaper feature article. Developing writing style through creative use of the English language. Oral communication emphasis: Interviewing and reading aloud.

JOUR 317. Broadcast Management**3 hours****Prerequisites:** JOUR 201 and 302.

The 100,000-watt college radio station WSMC-FM 90.5 provides the setting in which students learn the principles of broadcast management as they apply to radio and television. Class members become familiar with day-to-day station operations, including control room procedures, announcing, production, broadcast news and programming. Professionals from both radio and television serve as lecturers. (Alternate years)

JOUR 227/327. Video Production**3 hours**

Introduction to the basic procedures of producing non-studio video programs. Emphasis will be given to lighting, audio, and editing techniques. The student will make extensive use of portable video and video editing equipment. Supply lab fee of \$50 charged in addition to tuition. (Alternate years)

JOUR 356. Advanced Reporting (W)**3 hours****Prerequisite:** JOUR 205.

Reporting public affairs and writing articles in special areas after extensive research, interviews, and analysis: politics, government, law enforcement, society, science, medicine, education, religion, the arts, recreation, business. Oral communication emphasis: interviewing. (Alternate years)

JOUR 297/397. Practicum**1-3 hours****Prerequisite:** Consent of instructor before arranging for practicum.

Supervised work experience in print or broadcast journalism. At least 90 clock hours of work experience are required for each semester hour of credit. Procedures and guidelines are available from the department. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 236.

JOUR 423. Broadcast Programming**1-3 hours****Prerequisite:** JOUR 201.

A study of audiences and audience research, programming theories, and formats used in modern broadcast program planning. Emphasis also given to current FCC regulations and policies governing the broadcast industry. (Every third summer)

JOUR 427. Mass Media Law and Ethics**3 hours**

Study of the legal, ethical and constitutional issues affecting the media and the news gathering and dissemination process. Concepts of libel, privacy, free press, fair-trial, contempt of court, access to information, protection of sources, copyright law and government regulation of the media.

JOUR 165/465. Topics in Communication**1-3 hours**

Selected topics in broadcast journalism, print journalism, public relations, or related areas of communication.

JOUR 487. History of Mass Communication (W)**3 hours**

Development of the press in the United States from colonial times to the present, its influence on American government and institutions; rise of the mass media system, including newspapers, magazines, advertising, public relations, radio, television and the impact of the media system on society. Oral communication emphasis: Presenting reading and research reports. (Alternate years)

JOUR 488. Mass Communication and Society (W)**3 hours**

This seminar provides for informed student participation in the examination of the role and function of the mass media system in the United States; the concept of social responsibility as a constraint upon the media; ethical, social, economic and political issues involved in the function of newspapers, magazines, radio, television, advertising and public relations. Emphasis on reading, writing media critiques and on analysis of concepts and ideas. The course also includes an introduction to research methods for the study of mass communication. Oral communication emphasis: Presenting reading and research reports. (Alternate years)

JOUR 295/495. Directed Study**1-4 hours**

For students who want to do independent research and writing in a specialized area of the mass media. Directed study topics will be selected with guidance from the instructor who will serve as a consultant to the student in carrying out the project.

JOUR 497. Journalism Internship**3 hours**

Prerequisite: Completion of half the requirements for a major or minor in broadcast or news editorial journalism and departmental approval before arranging for internship.

Students work at a newspaper, magazine, broadcast station, or other agency to obtain on-the-job journalism experience, preferably during an eight- to 12-week period the summer between the junior and senior year when no other college course is taken. At least 270 clock hours of work experience are required. Procedures and guidelines are available from the department. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 236.

PUBLIC RELATIONS**PREL 234. Public Relations Principles and Theory****2 hours**

Basic Public Relations principles, philosophy and theory as they relate to the historical development and contemporary practice of public relations; analysis of the public relations role in business, industry and non-profit organizations and of the functions and responsibilities of the public relations practitioner.

PREL 244. Personal Selling**2 hours**

Principles and techniques of selling products and services based on understanding of buyer behavior, time and stress management, and effective persuasion. (Alternate years)

PREL 344. Fundamentals of Advertising**3 hours**

Advertising theories and principles; fundamentals of advertising copy writing, layout and design. Overview of research and campaign planning for public relations and marketing. (Alternate years)

PREL 354. Advertising Copywriting**2 hours**

Principles and practices in writing and preparing advertising messages for the mass media. Analysis of successful advertising copy as well as opportunity for students to develop their own copywriting skills are part of the course. Social responsibility and ethics of the advertiser and copywriter are an integral part of instruction. (Alternate years)

PREL 365. Public Relations Techniques**3 hours**

Prerequisite: JOUR 205 and CPTE 245/345.

Communications techniques used in public relations to identify and reach specified audiences through mass media channels and through controlled media. Preparation of press releases, brochures, newsletters, reports, audio-visuals, speeches and media campaigns; planning and conducting special events.

PREL 368. Fund Development**1-3 hours**

Study of fund-raising principles and concepts; techniques used in planning, organizing and carrying out a fund-raising campaign; developing prospect lists, writing proposals, identifying and training development leadership, working with foundations. (Every third summer)

PREL 297/397. Practicum**1-3 hours**

Prerequisite: Consent of instructor before arranging for practicum.

Supervised work experience in public relations, advertising, or sales. At least 90 clock hours of work experience are required for each semester hour of credit. Procedures and guidelines are available from the department. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 236.

PREL 406. Persuasion and Propaganda**3 hours**

Historical origin and contemporary uses of propaganda; the concept of public opinion; motivational tools and techniques to achieve public response; characteristics of publics and how they are influenced. (Alternate years)

PREL 482. The Public Relations Campaign**3 hours**

The public relations function in the context of the organizational communications and decision-making process. Application of communications theory and techniques in developing both internal and external communications campaigns; selected case studies. (Alternate years)

PREL 295/495. Directed Study**1-4 hours**

For students who want to do independent research and writing in a specialized area of public relations, advertising or marketing. Directed study topics will be selected with guidance from the instructor who will serve as a consultant to the student in carrying out the project.

PREL 497. Public Relations Internship**3 hours**

Prerequisite: Completion of half the requirements for a major or minor in public relations and departmental approval before arranging for internship.

Students work at a public relations office, department or agency to obtain on-the-job public relations experience, preferably during an eight- to 12-week period the summer between the junior and senior year when no other college course is taken. At least 270 clock hours of work experience are required. Procedures and guidelines are available from the department. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 236.

WORKSHOPS

JOUR 175/475. Communication Workshop**1-3 hours**

One semester-hour credit will be available for 40 clock hours of active participation in workshops conducted by the department in such areas as free-lance writing, news writing, video production, editing newsletters, crisis communication, public relations writing, fund raising, writing for student publications, editing student publications, and advising student publications. Advanced students may earn additional credits by completing a project started during the workshop. May be repeated for credit. (Summer)

(G-1) (G-2) (W) See pages 22-23 and 25-29 for explanation of General Degree and General Education requirements.

MATHEMATICS

Chair: Lawrence Hanson

Faculty: Robert Moore, Art Richert

Throughout recorded history mathematics and mathematical thinking have influenced man's culture to an extent that even many well-educated people fail to appreciate. *The Elements* of Euclid, the invention of a place-value numeration system, the invention of the calculus, the development of statistical inference, and more recently the development of computers, to name just a few, are mathematical contributions to civilization which have significantly affected the philosophies, commerce, science, and technology of mankind.

The Mathematics Department seeks to transmit this mathematical heritage to the students of Southern College by (1) introducing students to mathematical concepts and techniques and the disciplined, logical thinking required to successfully apply them to a variety of problem-solving experiences, (2) providing a stage of the formal education of professional mathematicians, (3) educating teachers of mathematics, and (4) providing appropriate courses for users of mathematics.

ASSESSMENT

All mathematics majors are required to take the Educational Testing Service Major Field Achievement Test in mathematics during the spring semester of their senior year. The results of this examination are used in ongoing review of the curriculum in mathematics.

PROGRAMS IN MATHEMATICS

Major—B.A. Mathematics (30 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
MATH 181	Calculus I	3	MATH 200	Elementary Linear Algebra	2
MATH 182	Calculus II	4		OR	
MATH 218	Calculus III	4	MATH 319	Linear Algebra	3
MATH 216	Set Theory and Logic	2	MATH 411	Intermediate Analysis	3
MATH 318	Algebraic Structures	3	MATH 485	Mathematics Seminar	1

<u>Required Cognates</u>		<u>Hours</u>
CPTR 131	Fundamentals for Prog I	3

Required Cognates, cont.
 *Two courses in any department having an oral communication component. MATH 319, 415, and 485 have this component.

Major—B.S. Mathematics (40 Hours)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
MATH 181	Calculus I	3	MATH 200	Elementary Linear Algebra	2
MATH 182	Calculus II	4		OR	
MATH 218	Calculus III	4	MATH 319	Linear Algebra	3
MATH 216	Set Theory and Logic	2	MATH 411	Intermediate Analysis	3
MATH 317	Complex Variables	3	MATH 412	Intermediate Analysis	3
MATH 318	Algebraic Structures	3	MATH 485	Mathematics Seminar	1

<u>Required Cognates</u>		<u>Hours</u>
CPTR 131	Fundamentals for Prog I	3
PHYS 211-212	General Physics	6
PHYS 213-214	General Physics Lab	2

Required Cognates, cont.
 *Two courses in any department having an oral communication component. MATH 319, 415, and 485 have this component.

Secondary certification in Mathematics requires a baccalaureate degree and completion of professional education courses (page 118) for licensure. Students preparing for secondary teacher certification must include MATH 215, 415 in the major. See further explanations in the Education and Psychology section, beginning on page 109.

**Sample Freshman Year Sequence
B.A. or B.S. Mathematics**

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
CPTR 131	Fund Prog I	3	CPTR 182	Calculus II	4
ENGL 101	College Composition	3	ENGL 102	College Composition	3
MATH 181	Calculus I	3		Area B, Religion	3
	Area F-2, Family Sci			Area F-1, Behav Sci	3
	OR	2		Area D-1/Beg For Lang	3
	AREA F-3, Health Sci				16
	Area G-3, Recreation	1			
	Area D-1/Beg For Lang	3			
		15			

See pages 22-23 and 25-29 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Minor—Mathematics (18 Hours)

<u>Required Courses</u>	<u>Hours</u>
MATH 181 Calculus I	3
Upper Division Math Courses	6
Math Electives (UD or LD)	9

MATHEMATICS

MATH 080. Elementary Algebra (A-2) 3 hours (Non-Credit)

This remedial course covers the content of first-year high school algebra. It is required of all students who meet NONE of the following criteria: 1) ACT math standard score of 16 or above; 2) ACT math elementary algebra subscore of 8 or above; 3) high school Algebra II with a grade of C or better. Tuition for three semester hours will be charged for this course. (Spring)

MATH 090. Intermediate Algebra (A-2) 3 hours (Non-Credit)

Prerequisite: MATH 080 or exemption.

Number systems and their properties, exponents, and radicals, equations and inequalities, polynomial functions and their graphs, systems of equations, logarithms. Tuition for three semester hours will be charged for this course. (Fall)

MATH 103. Survey of Mathematics (A-2) 3 hours

Prerequisite: MATH 080 or exemption.

Basic concepts from the following topics: sets, mathematical logic, numeration systems, number theory, probability, statistics, algebra, geometry, metric system, consumer mathematics. This course does not apply on a major or minor in mathematics. (Fall, Spring, Summer)

MATH 120. Precalculus Algebra (A-2) 3 hours

Prerequisite: Two years of high school algebra or MATH 090.

The real and complex number systems; algebraic equations and inequalities; functions and their graphs including polynomial, rational, exponential, and logarithmic functions; conic sections. This course does not apply on a major or minor in mathematics. (Fall, Spring, Summer)

MATH 121. Precalculus Trigonometry (A-2) 2 hours

Pre- or corequisite: MATH 120 or equivalent.

The trigonometric and inverse trigonometric functions and their graphs, trigonometric equations and identities, trigonometric form of complex numbers, vectors, and other applications. This course does not apply on a major or minor in mathematics. (Fall, Spring)

MATH 181. Calculus I 3 hours

Prerequisite: MATH 120 or a high school precalculus course.

Differential and integral calculus of the elementary functions (non-trigonometric) including limits, continuity, the derivative, computation of derivatives, applications of the derivative, the definite integral, the fundamental theorem of calculus, computation of antiderivatives, applications of the definite integral. (Fall, Spring)

MATH 182. Calculus II 4 hours

Prerequisites: MATH 121 or equivalent and MATH 181.

Precise definitions of limits, calculus of the trigonometric functions, further topics in differential and integral calculus, polar coordinates, analytic geometry, parametric equations, sequences, infinite series, Taylor series, vectors. (Spring)

MATH 200. Elementary Linear Algebra 2 hours

Prerequisite: MATH 181.

Systems of linear equations, matrices and determinants, vector spaces, linear transformations, eigenvalues and eigenvectors, applications. (Spring)

MATH 215. Statistics (A-2) 3 hours

Prerequisite: An ACT mathematics standard score of 22 or above, or two years of high school algebra, or MATH 090, or MATH 103.

An introduction to descriptive and inferential statistics including organization and analysis of data, elementary probability, probability distributions (binomial, normal, Student's *t*, chi-square, *F*), estimation, hypothesis testing, correlation and regression, nonparametric statistics. (Fall, Spring)

MATH 216. Set Theory and Logic 2 hours

Prerequisite: MATH 181.

An introduction to some of the basic ideas, terminology, and notation of logic and sets. The concept of a mathematical proof will be emphasized. (Spring)

MATH 218. Calculus III 4 hours

Prerequisite: MATH 182.

Partial derivatives, multiple integrals, vector calculus including Green's theorem, Stokes's theorem, and the divergence theorem. (Fall)

MATH 280. Applied Mathematics for Computer Science 3 hours

Prerequisite: MATH 120.

An examination of many of the mathematical concepts of particular use to computer scientists. The topics include set theory, relations, graph theory, combinatorics, Boolean algebra, digital logic and circuit design, proof techniques, and finite state automata. (Fall)

MATH 315. Differential Equations 3 hours

Prerequisite: MATH 182.

Classification and solution of common types of ordinary differential equations, power series solutions, systems of linear differential equations, the Laplace transform, applications to problems in the physical sciences. (Spring)

MATH 316. Partial Differential Equations 3 hours

Prerequisite: MATH 315.

Partial differential equations, Fourier series, boundary value problems, Bessel functions, Legendre polynomials. (Fall, even years)

MATH 317. Complex Variables 3 hours

Prerequisites: MATH 216, 218.

An introduction to the theory of analytic functions of a complex variable, including mappings by elementary functions, complex integration, the Cauchy Goursat theorem, Cauchy's integral formula, power series, Laurent series, the theory of residues, and conformal mapping. (Spring, odd years)

MATH 318. Algebraic Structures 3 hours

Prerequisites: MATH 216, 218.

The structure of groups, rings, integral domains, and fields. (Fall, even years)

MATH 319. Linear Algebra 3 hours

Prerequisites: MATH 181, 216.

Finite dimensional vector spaces and the attendant concepts of systems of linear equations, linear transformations, matrices, determinants, eigenvalues and eigenvectors. (Spring, odd years)

MATH 411-412. Intermediate Analysis 3,3 hours

Prerequisites: MATH 216, 218.

The real number system, sequences, limits and metric spaces, continuity, uniform continuity, introduction to point set topology, properties of the derivative and integral, convergence and uniform convergence of sequences and series of functions, orderings. (Fall, odd years; Spring, even years)

MATH 415. Geometry 3 hours

Prerequisites: MATH 181, 216.

Topics selected from the following: foundations of Euclidean geometry, finite geometries, advanced Euclidean geometry, non-Euclidean geometry, geometric transformations, the geometry of inversion, projective geometry. (Fall, odd years)

MATH 465. Nursing Statistics 3 hours

Prerequisites: MATH 090, or 103, or equivalent and permission from the Department of Nursing and the Department of Mathematics.

Descriptive and inferential statistics with an emphasis on techniques and tests which are most often used in nursing research. Topics are selected from the following: organization and analysis of data, probability, various parametric and nonparametric probability distributions, estimation, hypothesis testing, correlation and regression. This course is designed for community registered nurses who are working on advanced degrees, and is offered periodically at the request of the Department of Nursing.

MATH 475. Mathematics in the Sciences 1 hour

Prerequisites: All mathematics and science courses required for the B.A. degree in Social and Natural Science Studies.

A study of the relationship between mathematics and the sciences, the influences each has had and continue to have upon the other, and applications of precalculus mathematics to the life, physical, and social sciences. This course does not apply on a major or minor in mathematics. (Spring, odd years)

MATH 485. Mathematics Seminar (W)

1 hour

Prerequisite: Permission of Mathematics staff.

Written and oral reports are made on a variety of topics in mathematics including topics in current mathematical literature. Mathematics majors obtaining secondary certification must choose topics in the history and philosophy of mathematics. (Fall, odd years)

MATH 295/495. Directed Study

1-3 hours

Prerequisite: Approval by department faculty.

Individual reading and problem solving in a field chosen in consultation with an instructor. This course may be repeated for credit. (On demand)

EDUCATION

EDUC 438. Curriculum and Content Methods/Mathematics 1 hour

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performance, and the survey and evaluation of textbooks. (Fall)

(A-2) (W) See pages 22-23 and 25-29 for general degree and general education requirements.

MODERN LANGUAGES

Chair: Helmut Ott

Faculty: Mari-Carmen Gallego

This department combines language study with overseas experiences and other academic courses to administer an inter-disciplinary degree in International Studies that will enhance students' ability to live and work in an international setting. Students discover French, German, and Spanish not only as living languages but also as reflections of the cultures and the peoples they represent. The aim is to provide an aesthetic and historical background and a practical linguistic skill in the event the student becomes an overseas traveler or worker.

The ability to communicate with people is increasingly essential in today's shrinking world, and an acquaintance with a foreign culture should be part of the background of educated persons, particularly those with a sense of world mission. The Department of Modern Languages aspires toward helping Christians fulfill this responsibility to demonstrate good will, whether as travelers and business people or as respondents to the Master's gospel commission.

ASSESSMENT

The assessment of majors in International Studies consists of three basic parts: First the candidates write an evaluation of the departmental program to state their perception of the program's effectiveness in achieving its objectives. Second, the candidates take a departmental exam to demonstrate their degree of success in achieving near native mastery of the target language in the areas of listening, reading, writing, and speaking. Third, the candidates take an oral examination focusing on their knowledge and appreciation of the culture of the peoples who speak the target language. A key element of this interview is the candidates' ability to compare and contrast the target culture with their own, and to show how they relate, contribute to, and enrich each other.

FOREIGN STUDY

Adventist Colleges Abroad. Southern College is a member of the consortium of colleges and universities which, under the auspices of the General Conference of Seventh-day Adventists, supports the Adventist Colleges Abroad program. ACA provides an opportunity for students of French, German, or Spanish to achieve proficiency in the foreign language amid the added advantages of an authentic cultural setting.

The language schools operated by the following institutions are affiliates of ACA: in Austria, Seminar Schloss Bogenhofen, Braunau; in France, Institut Adventiste, Collonges-sous-Salève; in Spain, Colegio Adventista de Sagunto, Sagunto; and in Argentina, Universidad Adventista del Plata.

BACHELOR OF ARTS DEGREE IN International Studies

Major—B.A. in International Studies with emphasis in French, German, or Spanish (36 Hours)

1. Language Component	24 hours
• The intermediate level of the target language taken prior to the ACA experience.	6 hours
• Language courses at the ACA campus including at least 3 semester hours in Culture and Civilization	18 hours
2. Humanities Component	12 hours
ART 345 Contemporary Art	3
ENGL 445 World Literature	3
HIST 389 Vienna to Vietnam	3
RELT 368 Comparative Religions	3
TOTAL	36 hours

Major—B.A. International Studies, French Emphasis (36 Hours)

Required Courses	Quarter Hours	Required Courses	Quarter Hours
FREN 207 Intermediate French	3 (sem)	FREN 321 Adv Composition I	3
FREN 208 Intermediate French	3 (sem)	FREN 351 Adv Oral Expression I	3
FREN 211 Phonetics	2	FREN 381 Survey of French Lit	2
FREN 221 Intermediate Composition	3	FREN 471 French Civilization	
FREN 231 Intermediate Orthography	3	OR	3
FREN 251 Intermediate Oral Exp	3	FREN 472 French Civilization	
FREN 301 Advanced French	6		

Sample Freshman Year Sequence B.A. International Studies, French

1st Semester	Hours	2nd Semester	Hours
FREN 101 Elementary French	3	FREN 102 Elementary French	3
HIST 175 World Civilization		ENGL 102 College Composition	3
OR	3	HMNT 205 Arts and Ideas	
Another C-1 Course		OR	3
ENGL 101 College Composition	3	Another D-3 Course	
MATH 103 Survey of Math		PEAC PE Activity	1
OR	3	PSYC 128 Developmental Psych	
Area A-2, Mathematics		OR	3
RELT 125 Teachings of Jesus		Another F-1 Course	
OR	3	SPCH 135 Intro to Public Speaking	
Another B-1 Course		OR	3
	15	SPCH 136 Interpersonal Commun	
			16

Major—B.A. International Studies, German Emphasis (36 Hours)

Required Courses	Semester Hours	Required Courses, cont.	Sem. Hours
GRMN 201 Grammar I	4	GRMN 231 Rding/Pronunciation	1
GRMN 207 Intermediate German	3	GRMN 301 Grammar II	4
GRMN 208 Intermediate German	3	GRMN 311 Comp/Dictation II	2
GRMN 211 Comp/Dictation I	2	GRMN 321 Conversation II	1
GRMN 221 Conversation I	1	GRMN 354 Surv of Grmn Lit	3

Sample Freshman Year Sequence
B.A. International Studies, German
 Same as French
 (See Above)

Major—B.A. International Studies, Spanish Emphasis (36 Hours)

<u>Required Courses</u>		<u>Quarter Hours</u>	<u>Required Courses, cont.</u>		<u>Quarter Hours</u>
SPAN 201	Spanish Folklore	2	SPAN 331	Hist of Span Lit	
SPAN 207	Intermediate Spanish	3 (sem)		OR	3
SPAN 208	Intermediate Spanish	3 (sem)	SPAN 332	Hist of Spanish Lit	
SPAN 251	Inter Spanish Grammar	4	SPAN 352	Adv Spanish Grammar I	
SPAN 261	Inter Spanish Comp	2		OR	4
SPAN 271	Inter Span Conversation	2	SPAN 353	Adv Spanish Grammar I	
SPAN 272	Inter Span Conversation	2	SPAN 362	Adv Span Comp I	
SPAN 312	Spain & Its Culture			OR	2
	OR	2	SPAN 363	Adv Spanish Comp I	
SPAN 313	Spain & Its Culture		SPAN 372	Adv Spanish Conversation I	2
			SPAN 373	Adv Spanish Conversation I	2

Sample Freshman Year Sequence
B.A. International Studies, Spanish
 Same as French
 (See Above)

Minor—French, German or Spanish (18 Hours)

<u>Required Courses</u>	<u>Hours</u>
XXXX 207-208 Intermediate Language	6
Upper Division Language Courses	6
Elective Language Courses	6

The beginning language courses, 101-102, are excluded from the minor. *Students desiring a language minor must earn credits beyond the intermediate level either at ACA or in other language programs previously approved by this department.*

DESCRIPTION OF COURSES

I. Courses Offered at the SC Campus

FRENCH

FREN 101-102. Elementary French (D-1) 3,3 hours

A foundation course in the basic skills. May be waived by examination. Laboratory work is required. Ordinarily no credit will be allowed to students in elementary modern language if they have passed two years of language at the high school level. Students who have not taken language during the previous four years may enroll in FREN 101-102 by permission of the department. (FREN 101 is offered Fall; 102, Spring)

FREN 207-208. Intermediate French (D-1) 3,3 hours

Prerequisite: FREN 101-102, or two years of French in secondary school, or a satisfactory score on a standardized examination, or approval of the department. Advanced grammar; intensive and extensive reading of moderately difficult material; oral and written exercises. Laboratory work is required. (FREN 207 is offered Fall; 208, Spring)

GERMAN

GRMN 101-102. Elementary German (D-1) 3,3 hours

A foundation course in the basic skills. May be waived by examination. Laboratory work is required. Ordinarily no credit will be allowed to students in elementary modern language if they have passed two years of language at the high school level. Students who have not taken language during the previous four years may enroll in GRMN 101-102 by permission of the department. (GRMN is offered Fall; 102, Spring)

GRMN 207-208. Intermediate German (D-1) 3,3 hours

Prerequisite: GRMN 101-102, or two years of German in secondary school, or a satisfactory score on a standardized examination, or approval of the department. Advanced grammar; intensive and extensive reading of moderately difficult material; oral and written exercises. Laboratory work is required. (GRMN 207 is offered Fall; 208, Spring.)

SPANISH

SPAN 101-102. Elementary Spanish (D-1) 3,3 hours

A foundation course in the basic skills. May be waived by examination. Laboratory work is required. Ordinarily no credit will be allowed to students in elementary modern language if they have passed two years of language at the high school level. Students who have not taken language during the previous four years may enroll in SPAN 101-102 by permission of the department. (SPAN 101 is offered Fall; 102, Spring)

SPAN 207-208. Intermediate Spanish (D-1) 3,3 hours

Prerequisite: SPAN 101-102, or two years of Spanish in secondary school, or a satisfactory score on a standardized examination, or approval of the department. Advanced grammar; intensive and extensive reading of moderately difficult Spanish texts; oral and written exercises. Laboratory work is required. (SPAN 207 is offered Fall; 208, Spring)

II. Courses offered at the ACA language schools

1. Institut Adventiste du Salève

FREN 211. Phonetics 1-2 quarter hours

Familiarization with the French system of phonetics and the primary rules of spelling. Includes exercises in transcription and a laboratory period.

FREN 221. Intermediate Composition 2-3 quarter hours

Fundamental principles of French composition and stylistics.

FREN 231. Intermediate Orthography 2-3 quarter hours

Practical application of French orthography.

FREN 251. Intermediate Oral Expression 1-3 quarter hours

For students having a basic knowledge of French. They will learn how to function in a socially acceptable way in French culture by using the vocabulary, syntax, and sentence structure studied in FREN 201 class in dialogues, role plays, and varied activities.

FREN 301. Advanced French**6 quarter hours**

For students scoring sufficiently high on the placement test or those having completed FREN 201.

FREN 321. Advanced Composition I**2-3 quarter hours**

Techniques of composition, planning and organization, narrative procedures, descriptions and development of ideas. Requirement for students preparing for the Diplôme de Langue de l'Alliance Française.

FREN 351. Advanced Oral Expression I**1-3 quarter hours**

Students will develop their ability to express their ideas on different topics concerning French culture and civilization through presentations.

FREN 381. Survey of French Literature**2 quarter hours**

A survey of French literary masterpieces from the Middle Ages to the 20th century.

FREN 471, 472. French Civilization**2-3, 2-3 quarter hours**

A study of the main artistic trends in French history and the importance and influence of French culture from the Middle Ages to contemporary times. French life today: intellectual, artistic, political, and religious.

2. Seminar Schloss Bogenhofen**GRMN 201. Grammar I****4 hours**

Outline of German syntax with special attention to the peculiarities of the German language and the difficulties in the declensions.

GRMN 211. Composition-Dictation**2 hours**

Enlargement of the idiomatic use of the written language based on the previously acquired grammatical knowledge of the German language. Short essays and precis. Automatic usage of proper spelling. Training the ear to differentiate between the various sounds of the spoken language.

GRMN 221. Conversation I**1 hour**

Enlargement of the vocabulary touching on various aspects; practice dialogue situations including the colloquial peculiarities and practice in the idiomatic use of the German language.

GRMN 231. Reading & Pronunciation I**1 hour**

Practicing German pronunciation and improving reading comprehension through the analysis of the reading material.

GRMN 301. Grammar II**4 hours**

Prerequisite: GRMN 201 or a sufficiently high score on the placement exam. Advanced work in German syntax. Special practice in the grammatical use of the verb and the most common form of sentence structure. Course may be repeated with different content.

GRMN 311. Composition-Dictation II**2 hours**

Prerequisite: GRMN 211 or a sufficiently high score on the placement exam. Advanced work on the idiomatic use of the written and oral language. Course may be repeated with different content.

GRMN 321. Conversation II**1 hour**

Prerequisite: GRMN 221 or a sufficiently high score on the placement exam. Advanced vocabulary training, including colloquial peculiarities. Course may be repeated with different content.

GRMN 354. Survey of German Literature**3 hours**

A brief survey of German literature from the old German alliterative poems to contemporary writings.

3. Colegio Adventista de Sagunto**SPAN 201. Spanish Folklore****2 quarter hours**

Insight on the customs, traditions, holidays, costumes, music, songs, and dances of the Spanish people with an in-depth study on individual regions.

SPAN 251. Intermediate Spanish Grammar**4 quarter hours**

Review of grammar combined with oral and written practice at the intermediate level.

SPAN 261. Intermediate Spanish Composition**2 quarter hours**

Written Spanish with special emphasis on grammar, orthography, and syntax at the intermediate level. At least one composition due each week based on everyday topics.

SPAN 271, 272. Intermediate Spanish Conversation**2,2 quarter hours**

Oral practice in class with emphasis on grammar, phonetics, and syntax at the intermediate level. Lab required.

SPAN 312, 313. Spain and Its Culture**2,2 quarter hours**

Lectures and readings on Spanish culture—its history, politics, arts, and literature—with special emphasis on the Spanish way of thinking.

SPAN 331, 332. History of Spanish Literature**3,3 quarter hours**

A general study of Spanish literature from the Middle Ages to contemporary times. Recommended for students with advanced Spanish language skills.

SPAN 351, 352, 353. Advanced Spanish Grammar I**4,4,4 quarter hours**

An in-depth study of the Spanish grammar and syntax combined with both oral and written practice.

SPAN 361, 362, 363. Advanced Spanish Composition I**2,2,2 quarter hours**

Written Spanish with special emphasis on reading comprehension and compositions which incorporate the usage and understanding of studied grammatical structures. Compositions will be related to themes studied in class.

SPAN 371, 372, 373. Advanced Spanish Conversation I**2,2,2 quarter hours**

Attainment of a strong basic Spanish vocabulary with special emphasis on grammatical structures and idioms, and an understanding of the different speaking levels that exist within the language. Emphasis will also be placed on being able to understand and participate fluently and with self-confidence in a colloquial Spanish conversation. Lab required.

4. Universidad Adventista del Plata

Courses offered at the language school at this university correspond to those offered at Sagunto with the exception that the courses in folklore, culture, and literature are of Latin-America instead of being of Spain.

(D-1) See pages 25-29 for general education requirements.

MUSIC

Chair: Marvin L. Robertson

Faculty: J. Bruce Ashton, Julie Boyd-Penner, Orlo Gilbert, Judith Glass, Patricia Silver

Adjunct Faculty: Greg Bean, Daniel Bowles, Elaine Janzen, Nora Kile, Bruce Kuist, Lynda Magee-Johnson, Jan Parisi, Mark Reneau, Sharon Shuttlesworth-Reed, Gordon Stangeland

The faculty of the Department of Music believes that music is one of the arts given to man by his Creator to be used in the worship of God and to enhance the quality of man's life. In harmony with this philosophy, course work is offered which meets the needs of the general college student as well as music majors and minors.

The Department of Music offers two baccalaureate degrees, the Bachelor of Music degree in music education and the Bachelor of Arts degree in music. Both degrees require courses in music theory and history, as well as a high level of achievement in a major performance area. In addition, the Bachelor of Music degree emphasizes the skills necessary for teaching music, with special emphasis on the training of teachers for the Seventh-day Adventist school system.

ADMISSION REQUIREMENTS

Music majors must fulfill all the general admission requirements of the college. In addition, a prospective music major is required to take written and aural entrance examinations in music theory and a performance examination in the applied concentration. To obtain freshman standing as a music major the student must qualify for MUCT 111 and MUPF 189.

Further information regarding the entrance examinations may be obtained by writing the chair of the Department of Music.

GENERAL REQUIREMENTS

Functional Piano: All music majors must pass a functional piano examination or pass four hours of piano secondary. (The latter may not be used as part of the applied music requirement in the Vocal/General Endorsement for teacher certification.) The functional piano examination includes the playing of hymns, scales, triads, arpeggios, several moderately easy compositions and accompaniments, and the harmonization of simple folk melodies. The functional piano examination should be passed during the first week of the first semester in residence or the student must register for applied piano instruction. (See Music Lesson Fees under Financial Policies section of this CATALOG.)

Applied Music Credit: One semester hour of credit will be given for fourteen half-hour lessons with a minimum of four hours of practice per lesson. Applied music concentration grades are assigned following a jury examination at the end of each semester.

Concert and Recital Attendance: Full-time music majors are required to attend twelve Department approved concerts per semester, except for the student teaching semester. Attendance shall include faculty and senior recitals in the student's applied concentration area. Failure to meet this requirement will nullify music major status.

Music Ensemble Participation: All music majors are required to participate in a music ensemble every semester in full-time residence (12 or more hours). During the student teaching semester, students are exempted from this requirement. Teacher certification candidates must, however, complete eight hours of appropriate ensembles. Appropriate ensembles are defined as follows: string majors, Symphony Orchestra; wind and percussion majors, Concert Band; voice majors, Southern Singers; keyboard majors, any of the above. Students are encouraged to participate in a variety of other ensembles as time permits.

ASSESSMENT

The Department of Music has an ongoing program of student assessment. This program includes the following:

1. JURY EXAMINATIONS

Progress in the area of a music major's applied music concentration is monitored through the jury performance examination required of each major at the end of each semester.

2. JUNIOR STANDING

Music majors must apply for junior standing at the end of the sophomore year. These requirements are as follows:

- a. An overall grade point average of 2.00 for the Bachelor of Arts degree and 2.50 for the bachelor of Music degree.
- b. A grade point average of 2.50 in all music courses.
- c. completion of the functional piano requirement.
- d. Completion of MUCT 111-112, 121-122.
- e. Completion of at least four hours of credit in the student's applied music concentration area.

Faculty evaluation of the application for junior standing will result in the student's receiving one of the following classifications: (a) Pass, Bachelor of Music; (b) Pass, Bachelor of Arts; (c) Probation; (d) Fail. Junior Standing requirements must be met at least two semesters before graduation.

3. SENIOR RECITAL

All music degree candidates will present a senior recital. The student must be registered for private instruction while preparing for the senior recital. Upon music faculty approval the senior recital requirement may be partially fulfilled through a conducting or chamber music performance.

4. SENIOR ASSESSMENT EXAMINATION

During the senior year each graduating senior will take the nationally standardized Major Field Achievement Test. The results of this examination will be used to help determine the effectiveness of the music program and the competency level of the graduates.

BACHELOR OF MUSIC CURRICULUM

The Bachelor of Music degree in music education meets state and denominational certification requirements. Students must apply for admission to the Teacher Education Program through the Department of Education and Psychology prior to taking education courses. Each student

will be responsible to determine the additional courses that may be required for certification in the state of his/her choice. This information can be obtained at the Department of Education and Psychology.

State certification and graduation requirements for Music Education majors include passing the NTE Specialty Test in Music Education at the 480 level.

The following general education requirements apply only to students pursuing a Bachelor of Music degree:

A. Basic Academic Skills	9 hours
1. English	6 hours
2. Mathematics	3 hours
B. Religion	12 hours
1. Biblical Studies (RELB)	6 hours
2. Religion: RELT 138, 255	6 hours
C. History	6 hours
D. Language, Literature, Fine Arts	6 hours
1. Literature	3 hours
2. Speech	3 hours
E. Natural Sciences	8 hours
1. Biology	0-3 hours
2. Chemistry	0-3 hours
3. Physics	0-3 hours
F. Behavioral, Family, Health Sciences	2 hours
1. Health Science: HLED 173	2 hours
G. Activity Skills	2 hours
1. Recreational Skills	2 hours
TOTAL	45 hours

Music Core (33 Hours)

Required Courses	Hours	Required Courses, cont.	Hours
MUCT 111-112 Music Theory I, II	6	MUHL 320-323 Music history courses	8
MUCT 121-122 Aural Theory I, II	2	MUPF 477 Instr Conducting Techniques	3
MUCT 211-212 Adv Music Theory III, IV	6	MUPF 478 Choral Conducting Techniques	3
MUCT 221-222 Adv Aural Theory III, IV	2	MUCT 313 Orchestration and Arranging	3

Keyboard proficiency must be demonstrated by passing a piano proficiency examination. Four (4) hours of keyboard secondary may be used in lieu of the proficiency examination. The four hours of keyboard may not be used as part of the applied music requirement in the Vocal/General Endorsement.

Vocal/General Endorsement (31 Hours)

A. Applied Music Concentration Voice	
Applied Concentration	14 hours
Appropriate Ensemble(s)	8 hours

Vocal and General Methods including:

MUED 231 Music & Movement	2 hours
MUED 317 Voice Pedagogy	2 hours
MUED Elective	2 hours
MUED 439 Student Teaching Seminar	1 hours
MUPF 227, 228 Singers Diction	2 hours

B. Applied Music Concentration Keyboard

Applied Concentration (Piano or Organ)	14 hours
Applied Concentration (Voice)	4 hours
Appropriate Ensemble(s)	8 hours
Vocal and General Methods including:	
MUED 231 Music and Movement	2 hours
MUED 317 Voice Pedagogy	2 hours
MUED 316 Piano Pedagogy (Piano Concentration)	
OR	
MUED 318 Organ Pedagogy (Organ Concentration)	2 hours
MUED 439 Student Teaching Seminar	1 hours
Service Playing (Organ Majors Only)	2 hours

Instrumental Endorsement (35 Hours)

Applied Music Concentration

(one instrument: wind, string, or percussion) 14 hours

Appropriate Ensemble(s) 8 hours

Secondary Instrument Instruction

(must include at least two areas, excluding keyboard) 6 hours

Instrumental Music Methods and Materials 6 hours

MUED 439. Pre-Student Teaching Seminar 1 hours

Vocal/General and Instrumental Endorsement

An applicant for endorsements in both areas above may complete a minimum of ten semester hours in methods and materials, provided both are represented.

Education Core (26 Hours)

Before taking education courses, the student must apply to the Education and Psychology Department for admission to the Teacher Education Program. Before the end of the junior year, the student must apply to the Education and Psychology Department for admission to the professional semester.

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
EDUC 135	Introduction to Education	2	EDUC 356	Classroom Assessment	2
EDUC 217	Psych Foundations of Education	2	EDUC 422	Behavior Mgmt for Adolescents	2
EDUC 240	Ed for Excep Child and Youth	2	EDUC 434	Reading in Content - Secondary	2
EDUC 250	Technology in Education	2	EDUC 469	Enhanced Stu Teaching K-12	10
EDUC 325	Philosophy of Christian Ed	2			

Sample Freshman Year Sequence

B.Mus. Music Education

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
EDUC 135	Intro to Education	2	ENGL 102	College Composition	3
ENGL 101	College Composition	3	MUCT 112	Music Theory II	3
HIST	Area C-1, Elective	3	MUCT 122	Aural Theory II	1
MUCT 111	Music Theory I	3	MUPF 189	Applied Concentration	2
MUCT 121	Aural Theory I	1		Music Ensemble	1
MUPF 189	Applied Concentration	2	RELT 255	Christian Beliefs	3
	Music ensemble	1		Area C-2, Pol Sci/Econ	3
		<u>16</u>			<u>16</u>

BACHELOR OF ARTS DEGREE IN MUSIC

The Bachelor of Arts in music is a non-professional degree designed to give the student a broad understanding of the musical heritage of man.

Major—B.A. Music (40 Hours)

<u>Required Courses</u>	<u>Hours</u>	<u>Required Courses, cont.</u>	<u>Hours</u>
MUCT 111-112 Music Theory I, II	6	MUHL 321 Frottola to Fugue, 1450-1700	2
MUCT 121-122 Aural Theory I, II	2	MUHL 322 Suite to Sym Poem, 1700-1900	2
MUCT 211-212 Music Theory III, IV	6	MUHL 323 Diverse Musical Systems	2
MUCT 221-222 Aural Theory III, IV	2	MUPF 189 Concentration	1-2
MUCT 313 Orchestration & Arranging		MUPF 389 Concentration	1-2
OR	3	Music Ensembles	??
MUCT 413 Analysis of Music Form		Upper Division Electives	14
MUHL 320 Chant to Chanson, 600-1450	2		

A student must complete all general education requirements of the college. The foreign language recommended is either French or German.

Sample Freshman Year Sequence
B.A. Music

<u>1st Semester</u>	<u>Hours</u>	<u>2nd Semester</u>	<u>Hours</u>
ENGL 101 College Composition	3	ENGL 102 College Composition	3
MUCT 111 Music Theory I	3	MUCT 112 Music Theory II	3
MUCT 121 Aural Theory I	1	MUCT 122 Aural Theory II	1
MUPF 189 Applied Concentration--		MUPF 189 Applied Concentration--	
Instrument/Voice	1	Instrument/Voice	1
Music Ensemble	1	Music Ensemble	1
Area G-3, Recreation	1	Area A-2, Mathematics	0-3
Area B, Religion	3	Minor or Elective	6-3
Minor or Elective	2		15
	15		

Minor—Music (18 Hours)

<u>Required Courses</u>	<u>Hours</u>	<u>Required Courses, cont.</u>	<u>Hours</u>
MUCT 111-112 Music Theory I and II	6	Upper Division Electives	3
MUHL 115 Listening to Music	3	Music Elective	1
MUPF 189 Concentration	2		
MUPF 477 Instrumental			
OR	3		
MUPF 478 Choral Conducting Techniques			

CHURCH MUSIC**MUCH 215. Music in the Christian Church (D-3) 2 hours**

An historical and philosophical survey of music in the Christian Church with particular emphasis on hymnology. (Spring)

MUCH 315. Church Music Materials and Administration 3 hours

The study of worship philosophies, denominational political hierarchies, liturgies, ensemble organization, appropriate music literature for performance and administrative procedures. Students are required to prepare service music for services of various denominations.

MUSIC THEORY

MUCT 100. Introduction to Music Theory 2 hours

A study of the rudiments and basic vocabulary of music theory. Does not apply toward a music major or minor. This is a computer assisted course. (Spring, Summer)

MUCT 111-112. Music Theory I and II 3,3 hours

Prerequisite: MUCT 100 or examination.

A study of the elements which render music of all periods aurally and visually comprehensible, within simple forms and a variety of textures from one to four voices. Music Theory I may not be repeated more than once. (Fall, Spring)

MUCT 121-122. Aural Theory I and II 1,1 hours

A laboratory for the development of keyboard and sight-singing skills related to the materials introduced in MUCT 111-112. Music majors must take this concurrently with MUCT 111-112. This is a computer assisted course. (Fall, Spring)

MUCT 211-212. Music Theory III and IV 3,3 hours

Prerequisites: MUCT 111-112.

An expanded and intensified study of the structure of music as begun in MUCT 111-112. In MUCT 212, contemporary music is emphasized. (Fall, Spring)

MUCT 221-222. Aural Theory III and IV 1,1 hours

Keyboard and sight-singing applications of materials studied in MUCT 211-212. Music majors must take this concurrently with MUCT 211-212. This is a computer assisted course. (Fall, Spring)

MUCT 313. Orchestration and Arranging 3 hours

Prerequisites: MUCT 111-112.

The ranges, capabilities and limitations, and transpositions of orchestra and band instruments. Idiomatic scoring of short works for vocal and instrumental chamber groups, small orchestra, and band. Performance of exercises and analysis of scores is emphasized. (Spring, even numbered years)

MUCT 413. Analysis of Music Form 3 hours

Prerequisites: MUCT 211-212 or permission of instructor.

An analytical study of musical structure from the smallest units of form to the more complex music of all historical periods. (Fall, odd numbered years)

MUCT 295/495. Directed Study 1-3 hours

Individual study open to music majors and other qualified students. Content to be arranged. Approval must be secured from the department chair prior to registration. May be repeated up to a total of three hours. (Fall, Spring, Summer)

MUSIC EDUCATION

MUED 136. String Materials and Methods 2 hours

A study of the stringed instruments, including methods and materials for class and private instruction. Observation of classroom and private instruction is required. (Spring, even numbered years)

MUED 146. Brass Materials and Methods 2 hours

A study of tone production, performance techniques, embouchure, fingerings, practical pedagogic technique, and simple repairs. A survey of literature for the instruments and evaluation of teaching methods. Observation of classroom and private instruction is required. (Fall, even numbered years)

- MUED 156. Woodwind Materials and Methods** 2 hours
A study of tone production, embouchure, fingerings, practical pedagogic technique, and simple repairs. A survey of the literature for the instruments and evaluation of teaching methods. Observation of classroom and private instruction is required. (Spring, odd numbered years)
- MUED 166. Percussion Materials and Methods** 2 hours
A study of percussion instruments, including methods and materials for class and private instruction. Observation of classroom and private instruction is required. (Fall, odd numbered years)
- MUED 231. Music and Movement: A Sequential Approach** 2 hours
A survey of the structure of music including music fundamentals, movement to music, performance skills, listening skills, and the integration of music into life activities.
- MUED 316. Piano Pedagogy** 2 hours
Prerequisite: Two hours of MUPF 189 or equivalent.
Methods, materials, and procedures for private and class piano instruction; planning a complete program for pupils on various grade levels including technic, repertoire, and musicianship. Observation and teaching are required. (Fall, odd numbered years)
- MUED 317. Voice Pedagogy** 2 hours
Prerequisite: Two hours of MUPF 189 or equivalent and permission of instructor.
Methods, materials, and procedures for private and class voice instruction; testing and classification of voices; physiological and psychological problems of voice production and diction. Observation and teaching are required. (Spring, odd numbered years)
- MUED 318. Organ Pedagogy** 2 hours
Prerequisite: Two hours of MUPF 189 or equivalent.
Methods, materials, and procedures for instruction in organ; accompaniment of church services; registration of organ literature on various types of organs. Observation and teaching are required. (Fall, even numbered years)
- MUED 439. Pre-Student Teaching Seminar** 1 hour
Prerequisite: Admission to Teacher Education.
A seminar in which the student is oriented to student teaching, including curriculum, lesson planning, professional relationships, and other matters related to student teaching. (Spring)

MUSIC HISTORY

- MUHL 115. Listening to Music (D-3)** 3 hours
A course designed to acquaint the student with the major composers, musical styles, and forms of Western music. Two listening periods per week are required. Does not apply toward a music major. (Fall, Spring)
- MUHL 320. Chant to Chanson, 600 to 1450 (D-3) (W)** 2 hours
Prerequisite: MUHL 115, MUCT 111-112, or permission of instructor.
The development of musical style, beginning with plainsong and its notation, and continuing with the growth of polyphony and the appearance of secular forms. Special emphasis will be given to the evaluation of modern editions of music, particularly of the *Ars Nova*, and to investigation of problems in performance practice. (Fall, odd years)

MUHL 321. Frottola to Fugue, 1450-1700 (D-3) (W) 2 hours

Prerequisite: MUHL 115, MUCT 111-112, or permission of instructor.

National styles of composition throughout the Renaissance and the emergence of new ideas, particularly the monodic revolution and its resulting new form, opera. The development of the theory of common practice and the major changes in notational methods, as well as a survey of evolution of musical instruments during this period. (Spring, even years)

MUHL 322. Suite to Symphonic Poem, 1700-1900 (D-3) (W) 2 hours

Prerequisite: MUHL 115, MUCT 111-112, or permission of instructor.

The centrality of sonata form as the basis of chamber and orchestral literature; the appearance of significant small forms (as the lied and the piano piece); the analysis of representative works from all major schools. (Fall, even years)

MUHL 323. Diverse Musical Systems, 1900-present (D-3) (W) 2 hours

Prerequisite: MUHL 115, MUCT 111-112, or permission of instructor.

A study of systems replacing tonality, including aleatoric and dodecaphonic to minimalistic; broadening of musical bases, such as the influence of folk music and non-Western theories. Projects suitable for this semester might include studies of women in music, American music, or minorities. (Spring, odd years)

MUHL 465. Topics in Music 1-3 hours

Selected topics in music presented in a classroom setting. Subjects covered will determine how the class applies to the major. This course may be repeated for credit.

APPLIED MUSIC

MUPF 108. Group Instruction (G-1) 1-2 hours

Beginning voice and beginning piano only. A minimum of four hours of practice and/or listening outside of class is required. (Fall, Spring)

MUPF 129. Secondary (G-1) 1-2 hours

Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and a minimum four hours practice per week are required for each hour of credit granted. (Fall, Spring, Summer)

MUPF 189. Concentration (G-1) 1-2 hours

Prerequisite: Performance examination for freshman standing.

Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and a minimum four hours practice per week are required for each hour of credit granted. Private lessons for voice majors and minors include attendance at a weekly voice performance class. (Fall, Spring, Summer)

MUPF 227. Singers Diction (G-1) 1 hour

A study of the pronunciation of English and Italian. (Fall, odd numbered years)

MUPF 228. Singers Diction (G-1) 1 hour

A study of the pronunciation of German and French. (Spring, even numbered years)

MUPF 279. Service Playing (G-1) 1 hour

Prerequisite: Two hours MUPF 189 (organ) or permission of instructor.

The development of skills requisite to playing both liturgical and non-liturgical services, including hymn playing, choral and solo accompanying, conducting from the console, improvisation and modulation, and selection of appropriate preludes, offertories, and postludes. Performance experience required. (Fall, Spring)

MUPF 329. Secondary (G-1)**1-2 hours**

Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and a minimum four hours practice per week are required for each hour of credit granted. (Fall, Spring, Summer)

MUPF 389. Concentration (G-1)**1-2 hours**

Prerequisite: Four hours MUPF 189.

Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and a minimum four hours practice per week are required for each hour of credit granted. Private lessons for voice majors and minors include attendance at a weekly voice performance class. (Fall, Spring, Summer)

MUPF 477. Instrumental Conducting Techniques (G-1)**3 hours**

Prerequisite: MUCT 112 or permission of instructor.

Basic conducting techniques including beat patterns, cues, and expressive gestures, and instrumental problems. Experience in conducting instrumental ensembles is included. (Fall, odd numbered years)

MUPF 478. Choral Conducting Techniques (G-1)**3 hours**

Prerequisite: MUCT 112 or permission of instructor.

Basic conducting techniques including beat patterns, cues, and expressive gestures, and vocal problems. Experience in conducting choral ensembles is included. (Spring, even numbered years)

Courses MUPF 108, 129, and 329 are open to any student of the College as elective credit toward the B.A. or B.S. degree. The music major or minor may not apply these toward his applied music concentration. Students desiring to study organ must pass the Functional Piano Examination.

Courses MUPF 189 and 389 are courses primarily for the music major and minor, but they may be elected by anyone who passes the examination for freshman standing. Jury examinations are required with these course numbers.

The following performance areas may be studied: voice, piano, classical guitar, folk guitar, organ, violin, viola, cello, double bass, flute, oboe, clarinet, saxophone, bassoon, trumpet, French horn, trombone, baritone tuba, and percussion instruments.

CHORAL ENSEMBLES

Choral ensembles are open to all college students through audition. Each ensemble meets three periods per week and offers one hour credit each semester. Regular attendance at performances and rehearsals, including dress rehearsals, is required.

Ensembles for which academic credit is granted are organized and sponsored by the members of the music faculty.

MUPF 118/318. Schola Cantorum (G-1)**1 hour**

A small mixed-voice choir which specializes in performing sacred music of the Renaissance, Baroque, and Romantic eras.

MUPF 148/348. Something Special (G-1)**1 hour**

A small mixed-voice choir which performs both sacred and secular music in many styles. The music is frequently choreographed.

MUPF 158/358. Die Meistersinger Male Chorus (G-1)**1 hour**

A male-voice choir which performs music of all styles and style periods.

MUPF 168/368. Southern Singers (G-1)

1 hour

A large mixed-voice choir which performs music of all style periods.

MUPF 188/388. Vocal Ensemble Experience (G-1)

1 hour

A course designed to provide credit for participants in major choral works, musical productions, and other department-sponsored vocal activities. This course does not fulfill the music ensemble requirement for music majors. (Fall, Spring)

INSTRUMENTAL ENSEMBLES

Instrumental ensembles are open to all college students through audition. Each ensemble meets three periods per week and offers one hour credit each semester. Regular attendance at rehearsals is required.

Course numbers MUPF 178 and 378 do not fulfill the music ensemble participation requirement for music majors except those taking a keyboard concentration. Music majors other than those taking a keyboard concentration who wish Instrumental Ensemble Experience credit must be registered concurrently in Concert Band or Symphony Orchestra.

Ensembles for which academic credit is granted are organized and sponsored by members of the music faculty.

MUPF 128, 328. Concert Band (G-1)

1 hour

(Fall, Spring)

MUPF 138, 338. Symphony Orchestra (G-1)

1 hour

(Fall, Spring)

MUPF 178, 378. Instrumental Ensemble Experience (G-1)

1 hour

A course designed to provide credit for chamber ensembles or, in the case of keyboard majors, significant accompanying experience. (Fall, Spring)

(D-3) (G-1) (W) See pages 25-29 for explanation for General Education requirements.

NONDEPARTMENTAL COURSES

COOP 265/465. Cooperative Education

1-6 hours

This course allows students to receive credit for work experience. The assignments must be a specific program designed as an internship with an agreed upon description of the type of work, arrangements for supervision, and methods of evaluation. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 236. One hour of credit requires a minimum of 40 work hours. A maximum of six credit hours of cooperative education may be applied to a major.

FDNT 125. Nutrition (F-3)

3 hours

This class is administered by the Nursing Department.

A general education course introducing a student to the basic principles of human nutrition. Includes study of the nutrients and the requirements for different age groups and normal physiological conditions. Attention will be given to religious and sociological influences, taking particular note of the counsel of E. G. White. (Fall, Spring)

HMNT 205. Arts and Ideas (D-3)

3 hours

This class is administered by the History Department.

A cultural appreciation class tracing the historical evolution of intellectual movements in western civilization. Ideas from leaders in philosophy and the arts will be studied with appropriate works from music, art, and literature. Students may participate in activities involving specific art forms. Resource persons may assist as available. This course is also offered by the History Department as part of the European study tour program during selected summer sessions.

HMNT 150/350. International Travel

1 hour

One credit hour is available to participants in college tours outside the United States. The trip must last seven days excluding travel to and from the tour location, and must include a minimum of 20 hours in museums, historical sites, concerts, drama, and sightseeing. Students will submit written summaries/reflections of their experiences. Credit for this course is not granted simultaneously with credit earned in other tour classes. A complete tuition waiver applies to this class, calculated according to the policy on page 236.

HMNT 451, 452. Honors Seminar

1,1 hour

This class is administered by the History Department.

A study of great books in religion, philosophy, science and social science that have shaped western culture. Required of students in the Southern Scholars program during their junior or senior year. Open to other students with permission of department chair. A complete tuition waiver for this class applies to Southern Scholars students only, calculated according to the policy on page 236.

LIBR 125. Reference (G-2)

1 hour

This class is administered by the McKee Library faculty.

Designed for student library assistants. The course presents the basic concepts of library services and the skills needed for efficient use of library materials. The student will be required to complete eight separate modules of study pertaining to the organization of the library and the use of general and special reference works commonly found in a college library. This course is required of all public services library workers. (Fall)

LIBR 325. Library Materials for Children 2 hours

This class is administered by the Education and Psychology Department.

Presents to the student a knowledge of a wide variety of books and related materials for children, grades 1-8. Develops an appreciation for books and reading that can be enthusiastically transmitted to young readers through critical evaluation and selection of books and materials. Correlates the use of books and materials to the specific needs and interests of young readers.

LIBR 425. Library Materials for Young Adults and Adults 2 hours

This class is administered by the English and Speech Department.

Gives emphasis to the variety of books and related materials for grades 9-12. Correlates critical evaluation and selection to the interests, use, and specific needs of the young adult as he develops his reading habits and skills. Develops an appreciation for books and readings that can dynamically involve both young adults and adults. (Spring)

NOND 099. Student Missions Orientation 0 hours [Noncredit]

This class is administered by the College Chaplain.

A course designed to help students better understand cultural differences, interpersonal relationships, health care for others and themselves, social and monetary problems, personal qualifications for service, and relevant denominational policies for overseas service. The class is required by the General Conference of Seventh-day Adventist for those under appointment as student missionaries. The class is also a prerequisite for students participating in the North American Division Task Force Program. (Spring)

NOND 227-228. Christian Service I, II 6,6 hours

This class is administered by the College Chaplain.

Prerequisite: RELP 099.

A two-semester sequence for elective credit only, designed for student participants in the North American Division Task Force and Student Mission Program. The credit is primarily field work characterized by Christian witnessing and other assignments. Other activities may be designated. Students may earn six credit hours by completing one semester or twelve credit hours by completing a full academic year. Periodic reports from the students and on-site supervisors may be required. A 90 percent tuition waiver applies to this class, according to the policy on page 236. The policy for tuition refunds applies. The date the college receives notification of withdrawal will be the official withdrawal date. May not be repeated for credit.

(D-3) (F-3) (G-3) See pages 25-29 for explanation of General Education requirements.

NURSING

Chair: Katie Lamb

Collegedale Faculty: Carolyn Achata, Pam Ahlfeld, Caroline McArthur, David Gerstle, Lorella Howard, Bonnie Hunt, Connie Hunt, Phil Hunt, Barbara James, Laura Nyirady, Dana Reed, MaryAnn Roberts, Kathy Schleier, Shirley Spears, Jean Springgett, Judy Winters

Collegedale Adjunct Faculty: Bodil Morris, Linda Sanders, Jane Wright

Orlando Faculty: Flora Flood, Millie Preussner, Erma Webb

Blake/Bayonet Point Adjunct Faculty: Edward Mattea, Linda Fowler, Della Underwood

The nursing program at Southern College is a 2+2 program that leads to a baccalaureate degree in nursing with the option to exit at the associate degree level. The holders of an associate degree from a state approved program in nursing may progress into upper division nursing. Licensed diploma graduates and associate degree graduates from a non-NLN accredited program will be evaluated on an individual basis.

The curriculum in the lower division leads to an Associate of Science degree in nursing which may be completed in two academic years, plus summer courses. At this time the student is eligible to write state board examinations to become a registered nurse.

A well-equipped learning center and a skills laboratory are provided to assist students in learning experiences.

ASSOCIATE AND BACCALAUREATE PROGRAMS

The curriculum in the upper division provides the student an in-depth study in clinical nursing in addition to prescribed courses. Diploma graduates will be required to participate in validation procedures designed to evaluate their previous program of study.

A new class is accepted for lower division in the fall semester of each year with a limited number of students due to available clinical facilities and teachers. The upper division class is not limited in size.

POLICIES

Students who are admitted to Nursing are considered adequately mature to realize the importance of accepting personal responsibility for their learning and professional behavior.

The Department of Nursing Student Handbook contains the policies of the department. Each student contracts to abide by the regulations as outlined. The programs on the main campus and all extension campuses are governed by the same policies.

Transportation for clinical appointments is not provided for the students enrolled in upper division nursing courses. Students will be expected to provide their own transportation or make arrangements to share this expense with fellow students in the same course.

Because regular tuition charges and fees cannot cover the total cost of nursing education, an additional fee is charged as a "Nursing Education Fee" each semester to help offset the cost (see Special Fees and Charges under Financial Policies section of bulletin).

The Tennessee State Board of Nursing and other State Boards reserve the right to deny licensure in their states if the applicant has an unresolved felony on record in any state. The Nursing Department reserves the right to deny admission to or remove students from the nursing program who have records of misconduct, legal or otherwise, that would jeopardize their professional performance.

The Nursing Department reserves the right to revise, add, or withdraw courses as necessary to ensure a quality nursing program.

ACCREDITATION

The programs in nursing are fully accredited by the National League for Nursing. They are recognized by the Board of Regents of the Department of Education of the General Conference of Seventh-day Adventists, Florida Board of Independent College and Universities, and approved by the Tennessee Board of Nursing.

ASSESSMENT

The Department of Nursing has an ongoing assessment program. Each AS degree student is required to write standardized NLN examinations at specific intervals. Upon completion of the required nursing courses, a comprehensive nursing examination is given. The national NCLEX-RN licensure examination is written upon graduation. The Tennessee State Board of Nursing requires an annual pass rate of 86% for first time writers on the NCLEX-RN licensure examination in order for a school to be eligible for continued approval.

To help the B.S. graduates to evaluate their academic progress and to aid the department in evaluating teacher effectiveness, each student during the spring semester of their senior year will be required to:

1. Write a self-analysis
2. Complete an end-of-program survey
3. Complete an exit examination

PROGRAMS IN NURSING

Major—B.S. in Nursing (62 Hours)

(Includes 28 hours of A.S. level courses)

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
	A.S. Level Courses	28			
NRSRG 320	Medical/Surgical Nrsrg	6	NRSRG 335	Community Health Nursing	6
NRSRG 325	Adv & Pathologic Prin of Human Physiology	4	NRSRG 389	Pharmacology	3
NRSRG 326	Prof Concepts & Issues	2	NRSRG 484	Current Trends in Nrsrg Prac	3
NRSRG 327	Nursing Assessment	4	NRSRG 485	Management	3
			NRSRG 497	Nursing Research Methods	3
				Electives	2
<u>Required Cognates</u>		<u>Hours</u>	<u>Required Cognates, cont.</u>		<u>Hours</u>
BIOL 101-102	Anatomy & Physiology	6	FDNT 125	Nutrition	3
BIOL 225	Microbiology	4	PSYC 128	Developmental Psychology	3
CHEM 111	Survey of Chemistry I	3	RELT 373	Christian Ethics	3
CHEM 112	Survey of Chemistry II	3	SOCI 125	Introduction to Sociology	3
CHEM 114	Survey of Chemistry Lab	1	SOCI 349	Aging and Society	3
ENGL 101-102	College Composition	6			
<u>Required General Education</u>		<u>Hours</u>	<u>Required General Education</u>		<u>Hours</u>
MATH 215	Statistics (Required)	3		Area C-1, History	3
PEAC 125	Conditioning (Required)	1		Area C or D	3
	Area B, Religion	9		Area D, Lang/Lit/F Arts	3

Major—A.S. Nursing (34 Hours)

<u>Required Courses</u>		<u>Hours</u>
NRSB 105	Foundations of Nursing	7
NRSB 108	Nursing Trends	1
NRSB 114	Medical Surg Nursing I	5
NRSB 115	Medical Surgical Nrsng II	5

<u>Required Cognates</u>		<u>Hours</u>
BIOL 101-102	Anatomy & Physiology	6
BIOL 225	Microbiology	4
FDNT 125	Nutrition	3

<u>Required General Education</u>		<u>Hours</u>
ENGL 101-102	College Composition	6
	Area B, Religion (Including a RELB course)	6
	Area C, History	3

<u>Required Courses</u>		<u>Hours</u>
NRSB 213	Nrsng of Childbearing Family	4
NRSB 217	Mental Health Nursing	4
NRSB 320	Medical Surgical NRSB III	8

<u>Required Cognates</u>		<u>Hours</u>
PSYC 128	Developmental Psychology	3
SOCI 125	Intro to Sociology	3

Contact the Nursing Department for a suggested sequence of courses.

*Graduates of a state-approved associate degree nursing program will be considered to have met the general education requirements for the first two years of the program, with the exception of history/humanities and English. If Area C-1 or ENGL 101-102 courses were not included in the associate degree program, they must be taken in fulfillment of the Bachelor of Science degree general education requirements. A maximum of 72 semester hours will be accepted from a college where the highest degree offered is the associate degree.

ADMISSION REQUIREMENTS

The final decision on acceptance and continuation in nursing is made by the Department of Nursing. Declaration as a nursing major is not the equivalent of acceptance to the Department of Nursing. Minimum requirements for admission to nursing courses are listed below:

1. Acceptance to Southern College.
2. Having a diploma from a four-year accredited high school or the equivalent.
3. The applicant must show evidence of physical, mental, and moral fitness. Further references or information may be required regarding character, attitude, or coping ability in case of a question in these areas.
4. Students whose native language is not English must achieve at least 550 on the Test of English as a Foreign Language (TOEFL).
5. Students will maintain a current CPR certificate throughout the nursing program.
6. Foreign student transcripts will be evaluated by World Education Services. The cost for this evaluation will be paid by the applicant. The number of credits accepted for transfer to Southern College may vary from those listed on the evaluation, in accordance with the policies of Southern College.

Associate Degree

1. High school grade point average of 2.50 minimum (on a 4.00 scale) on solids (math, science, English, history, foreign language).
2. Two semesters of high school chemistry with a minimum grade of "C" or CHEM 111 with a minimum grade of "C."

3. Minimum ACT standard enhanced score of 16 in Math, 20 in Reading, and 19 in English and composite.
4. If the high school GPA or the Enhanced ACT scores are below the minimum requirement, it will be necessary for the student to take a minimum of 12 semester college hours for two semesters maintaining a grade point average of at least 2.70 on a 4.00 scale in required courses leading to nursing (including three hours each of English and math).
5. Science credits (Anatomy & Physiology, Chemistry, Microbiology, Nutrition) earned more than eight years prior to admission will not be accepted. Applicants may choose to validate knowledge by examination or by repeating the course.
6. Students with previous college work must have a minimum current and cumulative grade point average of 2.70 on a 4.00 scale in nursing cognate and solid courses (math, science, English, history, foreign language) before being considered for clinical nursing courses.
7. ACT scores are required of all nursing students.
8. Transfer students from another nursing program will be evaluated individually and accepted on a space available basis.
9. A student who has successfully completed a practical nurse program and NRS 103, Associate Nurse Perspectives, may receive seven (7) credit hours of advanced placement in nursing and will articulate directly into the second semester of nursing. The student becomes a part of the generic associate degree program after articulating into the second semester of nursing.
10. ACT-PEP examinations in Anatomy and Physiology (6 credits) and microbiology (3 credits) will be accepted as an alternative method of college credit for LPNs if these credits are already on the transcript when applying to the nursing program.

The following should be sent by March 1 to the College Director of Admissions: (1) application to the college (2) application to the Department of Nursing (3) high school and college transcripts (4) ACT scores. It is the applicant's responsibility to see that all application materials are received by the Nursing Department prior to the deadline.

Students accepted to clinical nursing are required to send an advance payment of \$300 to hold their place in the class. This payment also serves as the first semester's Nursing Education Fee and is in addition to the regular Advance Payment of \$2,000.

Baccalaureate Degree

Students wishing to enter the baccalaureate level nursing courses must send an application to the department's Coordinator of Admissions. **Upon acceptance to upper division nursing, courses currently listed in the catalog will be required of all students.**

Minimum requirements for admission to upper division nursing are as follows:

1. Minimum grade point average of 2.50 for lower division in nursing with no grade below a "C."
2. Minimum cumulative grade point average of 2.50 with no grade below "C" for lower division cognate courses.

3. For the B.S. one-year curriculum track, a minimum grade point average of 2.70 for nursing and courses leading to the B.S. degree and holds a license to practice professional nursing.

4. Experience:

- A. Applicant who has graduated within five years prior to application:

1. Satisfactory clinical performance and character references are required from basic nursing program.
 2. Satisfactory work performance and character references are required from employer(s). Students who have graduated within the previous twelve months will be exempt from the work requirement.

- B. Applicant who has graduated more than five years prior to application:

1. Minimum of one year satisfactory work experience in nursing for each five years since graduation and one year must be in the last five years.
 2. Satisfactory work performance and character references are required from employer(s).

5. Nursing Credits:

- Graduates of NLN accredited AA/AS and Diploma Nursing Programs:

When entering the B.S. nursing program, a transfer student will have placed in escrow 28 credits of lower division nursing and 6 credits of upper division nursing (NRSG 320). After successfully completing 10 semester hours of upper division nursing at Southern College, these credits in escrow will be placed on the transcript as accepted credits toward a B.S. degree with a major in nursing.

The 6 credits of upper division nursing (NRSG 320) in escrow policy applies to Southern College A.S. graduates prior to 1991.

- Graduates of non-NLN accredited AA/AS and Diploma programs:

Prior to registering for upper division nursing courses, the student must take the Nursing Mobility II examination and a validation examination for NRSG 320. This policy applies to **ALL Diploma** graduates after 1999.

Students are responsible for the cost of taking the examination(s) and the fee charged by the college for recording advanced credit on the transcript.

6. General Education and Cognates:

ACT-PEP examinations in Anatomy and Physiology (6 credits) and microbiology (3 credits) will be accepted as an alternative method of college credit for RNs if these credits are already on the transcript when applying to the nursing program.

- A. Associate Degree

Graduates of a state approved associate degree program will be considered to have met general education requirements for the first two years of the program with the exception of History/Humanities and English provided that criterion #2 has been met. If Area C-1 or ENGL 101, 102 courses were not included in the Associate Degree program, they must be taken in fulfillment of the Bachelor of Science degree general education requirements.

B. Diploma Graduate

1. Credit is acceptable for courses comparable to those required at Southern College if received from an accredited senior or junior college or by examination according to the policy state in the CATALOG.
 2. All cognates for the first two years must be completed before entering junior nursing courses. General education requirements may be taken concurrently.
- C. CHEM 111 must be completed before entering junior level nursing courses.

PROGRESSION REQUIREMENTS***Associate Degree***

1. A grade of at least "C" (2.00) is required in each nursing course for progression and/or graduation.
2. A grade of at least "C" is required in each nursing cognate with a minimum cumulative grade point average of at least 2.50 on a 4.00 scale in the cognates for progression in nursing. Cognate courses are BIOL 101, 102; FDNT 125; PSYC 128; BIOL 225; SOCI 125.
3. No more than two courses may be repeated. Only one may be a nursing course. Repeats may be in the following combinations: one nursing course and one cognate course, or two cognate courses.
4. Students who do not complete a semester or progress with their class, cannot be assured placement in their choice of a subsequent course.
5. A cumulative grade point average of at least 2.50 is required in both nursing and cognates for graduation.
6. Students are required to demonstrate satisfactory performance on standardized tests. Remedial work and/or delay in progression in the program will be required if the required performance level is not achieved.
7. Any remedial contracts must be fulfilled prior to progression or graduation (see Nursing Student Handbook).
8. Any cognate course taken off campus during the time the student is enrolled at Southern College (school year or summer) must be approved by the Nursing Department Chair.

Baccalaureate Degree

1. A grade of at least "C" (2.00) is required in each nursing course for progression and/or graduation.
2. A grade of at least "C" is required in each nursing cognate with a minimum cumulative grade point average of at least 2.50 on a 4.00 scale in cognates for progression in nursing. Cognate courses are CHEM 111, 112, 114; RELT 373; SOCI 349.
3. A cumulative grade point average of at least 2.50 is required in both nursing and cognates for graduation.
4. No more than two courses may be repeated. Only one may be a nursing course. Repeats may be in the following combinations: one nursing class and one cognate course, or two cognate courses.
5. Any cognate course taken off campus during the time the student is enrolled at Southern College (school year or summer) must be approved by the Nursing Department chair.

Readmission

1. Acceptance to Southern College.
2. Submit a nursing reapplication form to the Nursing Department at least one semester prior to re-entering the program.
3. A cumulative grade point average of 2.50 on a 4.00 scale is required for readmission to the nursing program.
4. Meet specified requirements as set forth by the department relating to the individual applicant.
5. A personal interview with a designated nursing faculty member.
6. If a lapse of time greater than two years occurs in a student's program of study, prior nursing credits will not be accepted unless an applicant can validate nursing knowledge through written examination and clinical performance (for associate degree only).

NURSING**NRSNG 103. Associate Nurse Perspectives****1 hour**

Prerequisite: Successful completion of the following: an approved LPN program; Nursing Mobility Profile I Examination; examination over basic skills common to all areas of nursing.

This course is designed to supplement and prepare the Licensed Practical Nurse for advanced placement and career mobility.

NRSNG 105. Foundations of Nursing**7 hours**

Prerequisites: Chemistry (high school or equivalent), BIOL 101.

Corequisites: FDNT 125; BIOL 102; PSYC 128.

This course is an introduction to the physical, psychosocial, spiritual and developmental aspects of health care. The student develops an understanding and utilization of the nursing process, and acquires basic nursing skills common to all areas of nursing. Four and three-fourths theory, two and one-fourth hours clinical. (Fall)

NRSNG 108. Nursing Trends**1 hour**

An introduction to the profession nursing, including an overview of nursing history, nursing organizations, education, legal and ethical issues, and opportunities of the profession. It will provide an understanding of the associate nursing role, familiarize the student with philosophy of spiritual care, and give an orientation to the program and its philosophy and organizing structure. (Spring)

NRSNG 114. Medical-Surgical Nursing I**5 hours**

Prerequisites: BIOL 102; FDNT 125; PSYC 128; NRSNG 105.

Corequisite: NRSNG 108.

This course provides students with the theory and practice of nursing which include selected basic needs of individuals (across the life span) at various points on the wellness-illness continuum. This includes focusing on those with selected medical-surgical problems. The nursing process is utilized to promote physical, psychosocial, and spiritual health, intervene in illness, and assist in rehabilitation. Two and three-fourths hours theory, two and one-fourth hours clinical. (Spring)

NRSNG 115. Medical-Surgical Nursing II**5 hours**

Prerequisites: BIOL 102; NRSNG 105; **Corequisite:** NRSNG 108.

This course provides students with the theory and practice of nursing continuing with individuals (across the life span) needs at various points on the wellness-illness continuum. This includes focusing on the nursing process as applied to individuals experiencing select medical/surgical interferences of increased complexity; promoting physical, psychosocial, and spiritual health; intervening in illness; and assisting in rehabilitation. Two and three-fourths hours theory, two and one-fourth hours clinical. (Spring)

NRSRG 213. Nursing of the Childbearing Family 4 hours

Prerequisites: PSYC 128; NRSRG 115.

This course provides nursing students with theory and practice in the care of childbearing families. This includes promoting physical, psychosocial, spiritual, and developmental health of expectant mothers and their infants before, during and immediately following delivery, utilizing the nursing process. Two and one-half hours theory, one and one-half hours clinical. Course includes a speech component. (Fall)

NRSRG 217. Mental Health Nursing 4 hours

Prerequisites: NRSRG 115; PSYC 128.

This course provides students with the opportunity to utilize the nursing process in intervening with clients throughout the life span with emphasis on specific psychosocial needs at different points on the wellness-illness continuum. Two and one-half hours theory, one and one-half hour clinical. (Fall)

NRSRG 255. Perioperative Nursing 3 hours

Prerequisites: BIOL 101-102, 225; NRSRG 104, 105.

An introduction to perioperative nursing. The course provides opportunity for applying theory and knowledge of basic sciences to practice; thus, enabling the nurse to care effectively for the client before, during, and after surgical intervention. (Theory 2 hours, Clinical 1 hour) (Spring).

NRSRG 265. Women's Issues (F-3) 3 hours

A study of current topics affecting women's general health. The content will focus on physical, psychosocial, and spiritual issues. **For Non-nursing students only.** (Spring)

NRSRG 310. Parish Nursing 3 hours

Prerequisites: NRSRG 335 or NRSRG 346 and 346 (Orlando Center).

A course designed to provide opportunity for the nurse to use independent judgment in developing a health ministry in local church communities. Course content and skills are designed to prepare the nurse to perform in the roles of educator, consultant, and counselor on health-related issues for church members and staff. A variety of experiences will be chosen from clinical settings such as hospices, hospital chaplaincies, and church organizations. Two hours theory, one hour clinical. (Offered alternate years)

NRSRG 320. Medical-Surgical Nursing III 8 hours

Prerequisites: BIOL 225; NRSRG 213, 217.

This course provides students with theory and practice of utilizing the nursing process in dealing with complex needs related to physical, psychosocial, spiritual, and developmental aspects of individuals (across the life span) who have acute medical-surgical interferences. The student is introduced to leadership concepts. Four hours theory, four hours clinical. (Spring)

NRSRG 325. Advanced and Pathologic Principles of Human Physiology 4 hours

Pre- or corequisite: CHEM 112/114.

This course assists the student to integrate principles of physiology with clinical practice, to correlate physical manifestations with pathologic interferences, and to move toward more independent predictive care of clients. Four hours theory. (Spring)

NRSG 326. Professional Concepts and Issues**2 hours****Prerequisite:** NRSG 320

A course designed to assist the registered nurse student in the transition of learning from an associate degree or diploma program to the baccalaureate approach to nursing. Focus will be on the development and presentation of concepts and current issues related to professional nursing. In order to meet the objectives of the course, a field trip may be required. Course includes a speech component. (Fall)

NRSG 327. Nursing Assessment**4 hours****Prerequisite:** NRSG 320; **Pre- or corequisite:** NRSG 326.

This course provides opportunities for creativity in the utilization of the expanding role of the clinical practitioner and enables the student to develop advanced skills in utilizing the nursing process through history taking, physical examination, health planning, and counseling of the patient/client. Three hours theory, one hour clinical. Two all-day clinical experiences are required. (Fall)

NRSG 335. Community Health Nursing**6 hours****Pre- or corequisites:** NRSG 326, 327; MATH 215 (desirable).

A course which includes concepts and practice of the nursing process with emphasis on moving individuals, families, and communities toward their optimal level of functioning on the wellness-illness continuum. This course combines community and mental health concepts. Three hours theory, three hours clinical. Course includes a speech component. (Spring)

NRSG 346. Community Health Nursing**3 hours****Prerequisites:** NRSG 326, 327; MATH 215 (desirable).

A course which includes concepts of community health, with emphasis on community assessment and working with groups. One and one-half hours theory, one and one-half hours clinical. (Orlando Center only)

NRSG 347. Community Health Nursing**3 hours****Prerequisites:** NRSG 346; MATH 215 (desirable).

A course which includes concepts and practice of the nursing process with emphasis on moving individuals, families and communities toward their optimal levels of functioning on the wellness-illness continuum. This course combines community and mental health concepts. One and one-half hours theory, one and one-half hours clinical. Course includes a speech component. (Orlando Center only)

NRSG 389. Pharmacology**2 hours****Prerequisites:** CHEM 111 and CHEM 112/114.

Study of pharmacologic concepts. Focus will include major classifications, pharmacokinetics, drug interactions, and nursing consideration. (Spring)

NRSG 465. Topics in Nursing**1-3 hours**

Selected topics designed to meet the needs or interests of students in specialty areas of Nursing not covered in regular courses. This course may be repeated for credit.

NRSG 484. Current Trends in Nursing Practice**3 hours****Prerequisites:** Senior standing and hold an RN license.

This course provides opportunity for the student to select an area of specialized interest in which to develop a broader scope of clinical competence. The choices of clinical areas may be limited due to the number of students in the semester. Content will focus on updating major theoretical areas and clinical skills. One and one-half hours theory, one and one-half hours clinical. (Spring)

NRSRG 485. Management**3 hours****Prerequisites:** NRSRG 326, Senior standing and hold an RN license.

This course provides the opportunity for the student to use independent judgment in developing beginning management skills. This goal will be accomplished primarily through the leadership modes, management and administrative experiences in selected clinical areas. Two hours theory, one hour clinical. In order to meet the objectives of the course, a field trip may be required. (Spring)

NRSRG 497. Nursing Research Methods (W)**3 hours****Prerequisites:** MATH 215; ENGL 102.

Scientific methods of inquiry are applied to nursing problems including framework for practice, principles of data treatment, and analysis. The student plans a research proposal. The course is designed to give the student the concepts, methods, and tools for intelligent participation in and application of research and evaluation. Three hours theory. (Fall)

NRSRG 295/495. Directed Study**1-3 hours****Prerequisite:** Approval of department chair.

Individual study in an area of choice shall be worked out with the department prior to registration. Either upper or lower division credit may be earned. The area of directed study will appear on the transcript. No more than six hours directed study may be applied toward a degree.

(F-3) (W) See pages 25-29 for explanation of General Education requirements.

THE ORLANDO CENTER**Major—B.S. in Nursing**

A part-time program is offered. Admission and progression requirements are the same as those on the main campus. All diplomas and official transcripts are issued from the parent campus. For information contact:

1. Southern College of SDA - Orlando Center

653 Lake Estelle Drive
Orlando, FL 32803

Erma Webb, MSN, RN, Coordinator
(407) 897-1890

2. Southern College of SDA—HCA Blake Campus

2020 59th Street, W
Bradenton, FL 34209

Southern College of SDA—HCA Bayonet Point/Hudson Campus
14000 Fivay Road
Hudson, FL 34667

Nancy Haugen, MSN, RN, Coordinator
(813) 792-6611 Blake Campus
(813) 863-2411 Bayonet Point Campus

3. Linda Marlowe, Admission Coordinator for all campuses

Southern College of SDA
P.O. Box 370
Collegedale, TN 37315-0370

(615) 238-2941

PHYSICS

Chair: Ray Hefferlin

Faculty: Orville Bignall, Henry Kuhlman, Cyril Roe

Adjunct Research Faculty: George Viktorovich Zhuvikin

Many doors of service await students who study physics. SC physics major graduates have become academy and high school teachers, and professors and researchers in physics, in America and overseas. Also, one or more of them has served as aerospace researcher for the Apollo project, anesthetist, chemical researcher, computer systems manager, computer network manager at large factory, corporation pilot, dentist, family-practice medical doctor, full-time homemaker, geologist, historian of science, instructor for fossil-fuel power-plant operators, instructor for nuclear-reactor operators, lawyer, mathematician, nuclear-plant walk-down engineer, oceanographer, oil-drilling engineer, planner for Space Station Freedom, radiologist, reliability designer for long-distance telephone systems, radio station engineer, and researcher in educational statistics.

ASSESSMENT

To help the graduates in Physics evaluate their academic progress and to aid the department in evaluating teaching effectiveness, each senior is required to:

1. Take the physics portion of the GRE. A score above the 35th percentile is necessary for recommendation for graduate study.
2. Take PHYS 480 and do original research as a prerequisite.

Alumni are surveyed and studies are prepared comparing GRE results, careers, and graduate-study success. Information gained from the assessments and studies is used to evaluate departmental programs.

PROGRAMS IN PHYSICS

Major—B.A. Physics (30 Hours)

<u>Required Courses</u>			<u>Strongly Recommended Electives</u>		
		<u>Hours</u>			<u>Hours</u>
PHYS 137	Intro to Physics	3	TECH 174	General Metals	3
PHYS 155	Descript Astronomy: Creation & Cosmology	3	PHYS 400	Physics Portfolio	1
PHYS 211-212	General Physics	6			
PHYS 213-214	General Physics Lab	2			
PHYS 310	Modern Physics	3			
PHYS 311-312	General Physics Cal Appli	2			
PHYS 412	Quantum Mechanics	3			
PHYS 480*	Scientific Writing	1			
	Physics Electives	7			

*Satisfies the writing and speech components of the major.

**Sample Freshman Year Sequence
B.A. Physics**

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
CPTR 106	Intro to Spreadsheets	1	CPTR 105	Intro to Word Processing	1
CPTR 107	Intro to Data Base	1	ENGL 102	College Composition	3
ENGL 101	College Composition	3	MATH 121	Precalculus Trigonometry	4
MATH 120	Precalculus Algebra	3	PHYS 155	Descrip Astronomy	3
	Area B, Religion	3		Area F-2, Fam Sci OR	
	Area C-1, History	3		Area F-3, Hlth Science	3
		<u>14</u>			<u>14</u>

Major—B.S. Physics (40 Hours)

<u>Required Courses</u>	<u>Hours</u>	<u>Strongly Recommended Electives</u>	<u>Hours</u>
PHYS 211-212 General Physics	6	CPTR 105 Intro to Word Processing	1
PHYS 213-214 General Physics Lab	2	CPTR 106 Intro to Spreadsheets	1
PHYS 310 Modern Physics	3	CPTR 107 Intro to Data Base	1
PHYS 311-312 General Physics Cal Appli	2	CPTR 425 Computer Graphics	3
PHYS 412 Quantum Mechanics	3	TECH 174 General Metals	3
PHYS 413 Analytic Mechanics	3		
PHYS 414-415 Electrodynamics	6		
PHYS 418-419 Advanced Quantum Mechanics	6		
PHYS 295/495 Directed Study	1-3		
OR			
PHYS 297/497 Undergrad Research	1-2		
PHYS 480* Scientific Writing	1		
Physics Electives	5-7		

Students are expected to become student members of the American Physical Society and to purchase a book of mathematical tables or a computer-based mathematics resource.

*PHYS 480 satisfies the writing and speech components of the major.

**Sample Freshman Year Sequence
B.S. Physics**

<u>1st Semester</u>		<u>Hours</u>	<u>2nd Semester</u>		<u>Hours</u>
ENGL 101	College Composition	3	ENGL 102	College Composition	3
MATH 181	Calculus I	3	MATH 182	Calculus II	4
PHYS 211	General Physics	3	MATH 216	Set Theory & Logic	2
PHYS 213	General Physics Lab	1	PHYS 212	General Physics	3
	Area C-1, History	3	PHYS 214	General Physics Lab	1
	Area G-1 or G-3, Skills	2		Area B, Religion	3
		<u>15</u>			<u>16</u>

Minor—Physics (18 Hours)

<u>Required Courses</u>	<u>Hours</u>
Physics Electives	12
Upper Div Physics Courses	6

Major—B.A. Physics, Teacher Certification, 7-12

Secondary certification in Physics requires a baccalaureate degree and completion of professional education courses (page 118) for licensure. Students preparing for secondary teacher certification must also take BIOL 103; CHEM 111-112; ERSC 105; and RELT 317 or 318 or 424. See explanations in the Education and Psychology section.

The student must apply to the Department of Education for admission to the Teacher Education Program before the end of the sophomore year. At the end of the junior year application must be made to do student teaching.

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses, cont.</u>		<u>Hours</u>
PHYS 137	Intro to Physics	3	PHYS 311-312	Gen Physics Calculus Appli	2
PHYS 155	Descriptive Astronomy	3	PHYS 400	Physics Portfolio	1
PHYS 211-212	General Physics	6	PHYS 412	Quantum Mechanics	3
PHYS 213-214	General Physics Lab	2	PHYS 480	Scientific Writing	1
PHYS 310	Modern Physics	3		Physics Electives	6

<u>Required Cognates</u>		<u>Hours</u>	<u>Select One of the following:</u>		<u>Hours</u>
CHEM 111-112	Survey of Chemistry	6	PHYS 317	Issues in Phy Sci/Religion I	3
ERSC 105	Earth Science	3	PHYS 318	Issues in Phy Sci/Religion II	3
BIOL 103	Principles of Biology	3	BIOL 424	Issues of Nat Sci & Religion	3

PHYSICS

PHYS 137. Introduction to Physics (E-3) 3 hours

An introduction to physics presented in an integrated manner which seeks to ensure that the student sees physics holistically. The theory (which normally takes place as classroom instruction) and practice (normally done with sample homework problems and in laboratory experiments) are as much as possible blended for each unit of the course. Interactive software packages may be used for some units. Satisfies the requirements for some Allied Health fields at some schools; does not apply on a B.S. major in physics.

PHYS 138. Introduction to Physics Applications (E-3) 1 hour

Prerequisites: Concurrent enrollment in PHYS 137 or previous enrollment and permission of instructor.

Additional theory and practice at the level of PHYS 137, oriented toward applications in the Health sciences. Meets once a week.

PHYS 155. Descriptive Astronomy:

Creation and Cosmology (E-3)

3 hours

Constellations and eclipses, astronomical instruments, time and the date line and calendars, astronomical objects with their motions and distances, energy processes in stars and quasars and pulsars, black holes, the infinity (?) and expansion (?) of the universe. Cosmology, the formation and subsequent histories of the solar system and the earth, radioactive dating, life on other worlds, as seen from observational and Biblical perspectives. Three hours lecture each week, with optional opportunities for an observation period.

PHYS 199. Concepts of Physics (E-3)

1 hour

Prerequisite: MATH 121 concurrently.

An introduction to selected topics which often cause difficulty in PHYS 211, 212, such as torque and angular momentum, and relativity. Does not count on a B.S. major in physics. (Spring and fourth summer session)

PHYS 211-212. General Physics (E-3)

3,3 hours

Prerequisites: MATH 120, 121.

The algebraic and trigonometric treatment of mechanics, heat, sound, light, electricity and magnetism, and "modern physics." Applies on the basic science requirement as a non-laboratory science if taken alone and as a laboratory science if taken with PHYS 213-214. (Fall, Spring)

PHYS 213-214. General Physics Laboratory (E-3)

1,1 hours

Prerequisite: Previous or concurrent enrollment in PHYS 211-212.

Laboratory experience designed to illustrate the material in lectures, to familiarize the student with useful measuring apparatus, and to encourage a systematic development of scientific curiosity, caution, and method. (Fall, Spring)

PHYS 310. Modern Physics

3 hours

Prerequisites: PHYS 211-212; MATH 181, 182.

The origins of modern physics, quantum theory, the theory of relativity, nuclear physics. Three hours lecture each week. Laboratory experience is available in PHYS 325. (Fall)

PHYS 311-312. General Physics Calculus Applications

1,1 hours

Prerequisites: MATH 181; previous or concurrent enrollment in PHYS 211-212. Derivations and problems in General Physics using differential and integral calculus will be studied. Students completing PHYS 211-212 and PHYS 311-312 will have taken the equivalent of General Physics with calculus. Two class periods per week. (Spring)

PHYS 313. Physical Optics

3 hours

Prerequisites: PHYS 211-212; MATH 182.

Refraction, reflection, interference, and absorption of light are discussed from the standpoint of the ray and especially of the wave theories of light. Laboratory experience is available in PHYS 325. (Spring, even years)

PHYS 315. Laboratory Astrophysics

3 hours

Prerequisites: PHYS 155, 211-212, 213-214, 311-312.

Interpretation of spectral line and band wavelengths, profiles, and intensities in terms of stars' composition, temperature, pressure, motions. Design of laboratory experiments to obtain atomic and molecular constants. Systematics of atomic and molecular data. Laboratory experience is available in PHYS 497.

PHYS 316. Mathematics of Physics

3 hours

Prerequisite: MATH 315.

See MATH 316 for course description.

PHYS 317. Issues in Physical Science and Religion I (E-3)

3 hours

Prerequisite: One year of high school physics or chemistry or one semester of college physics or chemistry.

The extent to which mathematics and the physical sciences are true because they conform to the real world, or because they are derived from axioms, or because they conform to one's understanding of Scripture. Non-logical factors in the acceptance of scientific statements as authoritative. Application of the scientific method to technology-related problems of global significance. Does not apply to a major or minor in Physics.

PHYS 318. Issues in Physical Science and Religion II (E-3)

3 hours

Prerequisites: One year of high school physics or chemistry or one semester of college physics or chemistry.

The argument for the existence of God from design. The relationship of design to comprehensibility and to causality. Causality in the everyday world and on the subatomic scale. Miracles as associated with awe or with the unknown (by determinists), or with boundary conditions (as in solving problems mathematically), with any one of several aspects of physics, or with God's continual upholding of natural process. Does not apply to a major or minor in Physics.

PHYS 325. Advanced Physics Laboratory I

1 hour

Prerequisites: PHYS 213-214, 310.

Laboratory experiments pertinent to areas of physics except electricity and magnetism. Meets once per week.

PHYS 326. Advanced Physics Laboratory II

1 hour

Prerequisites: PHYS 213-214, 310.

Laboratory experiments pertinent to electricity and magnetism. Meets once a week.

PHYS 400. Physics Portfolio**1 hour**

Each student majoring in Physics may compile a portfolio consisting of records of participation in professional activities as suggested by departmental faculty and as initiated by the student. Examples of activities include but are not limited to the following: attendance at club meetings, professional film showings, visiting-scientist seminar, and research review sessions, reading of journals and books, participation at professional meetings, preparation for graduate school and for employment, and lists of concepts or new ideas. The portfolio is reviewed upon the student's registration for this course during the senior year. The grade earned for this credit will depend upon the persistence of the student in participation during his/her stay at Southern College and during summers, and upon the breadth and depth of the entries. It also depends upon the student having his/her portfolio reviewed by the Department at the end of each preceding semester, and the extent to which the Department's suggestions on those occasions are implemented.

PHYS 411. Thermodynamics**3 hours**

Prerequisites: PHYS 311-312; MATH 315 or permission of instructor.

A study of gases, kinetic theory, and quantum statistics. Emphasis is placed on being able to use thermodynamics data in the literature. Three hours of lecture each week. This class is not open to students who have taken CHEM 411. Laboratory experience is available in PHYS 497. (Fall, even years)

PHYS 412. Quantum Mechanics**3 hours**

Prerequisites: PHYS 311-312; MATH 315 or permission of instructor.

The limits to classical physics; wave packets, the Schroedinger equation, eigenfunctions and eigenvalues, one-dimensional potentials, the solution of the Schroedinger equation in spherical-polar coordinates for the hydrogen atom; electron spin and the Pauli requirement for antisymmetric wave functions, with applications to states of light atoms; variation techniques for small atoms and molecules, Hueckel and LCAO methods. This class is not open to students who have taken CHEM 412. (Spring, odd years)

PHYS 413. Analytic Mechanics**3 hours**

Prerequisites: PHYS 310 and 311-312; MATH 182, 218, 315 (MATH 316, 317, 318, 319, 411-412 desirable).

The motion of a particle in gravitational and other classical fields is attacked using the techniques of differential equations in the Newtonian, Lagrangian and Hamiltonian forms. Special functions, vector theorems, transforms, and tensors are introduced as needed. Laboratory experience is available in PHYS 325. (Fall, odd years)

PHYS 414-415. Electrodynamics**3,3 hours**

Prerequisites: PHYS 310 and 311-312; MATH 182, 218, 315, (316, 317, 318, 319, 411-412 desirable).

Analysis of electrical circuits, electrostatic and magnetostatic fields, and the motion of charges therein. Maxwell's equations and the consequent prediction of electromagnetic waves. Applications to modern atomic and nuclear theory are stressed. Complex mapping, vector theorems, transforms, and special functions may be used. Laboratory experience is available in PHYS 326. (Fall, even years; Spring, odd years)

PHYS 418-419. Advanced Quantum Mechanics **3,3 hours**

Prerequisites: PHYS 310, 311-312, 412; MATH 182, 218, 315, (316, 317, 318, 319, 411-412 desirable)

The structure of quantum mechanics; review of the Thomson, Bohr, and Fermi-Thomas models; operator methods; operators, matrices, and spin; time-independent perturbation theory; corrections to the hydrogen-atom treatment; other atoms and the periodic table; emission and absorption of radiation from atoms; collision theory; elementary particles and their symmetries; group dynamics approach to particle classification. (Fall, odd years; Spring, even years)

PHYS 480. Scientific Writing (W) **1 hour**

Principles and techniques of writing for news releases, periodicals, and research journals. Practice in scientific meeting oral and poster-session presentation. The student must have done some original research of an experimental, computational, or theorem-proving nature before enrolling in this course. PHYS 295/495 and 297/497 exist to fulfill this requirement and there are numerous opportunities with pay at universities and national laboratories during the student's junior-senior summer. (Fall)

PHYS 295/495. Directed Study **1-3 hours**

Prerequisite: Consent of instructor.

This course consists of individual or group work adjusted to meet particular needs in Physics. Approval must be secured from the instructor prior to registration. This course may be repeated for credit. (Fall, Spring)

PHYS 297/497. Undergraduate Research in Physics **1-2 hours**

Prerequisite: Permission of instructor.

Research under direction of a member of the staff. The topic will be assigned in accordance to the interests and capabilities of the student. May be repeated for up to four hours. (Fall, Spring; May be accomplished on a co-op basis during the summer.)

EARTH SCIENCE

ERSC 105. Earth Science (E-4) **3 hours**

A non-mathematical and qualitative introduction, for non-science majors, to the areas of physical geography, geology, and meteorology. Special consideration is given the environment—conservation or pollution of natural resources. (Fall, Spring)

EDUCATION

EDUC 438. Curriculum and Content Methods/Physics **1 hour**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performance, the survey and evaluation of textbooks.

(E-3) (E-4) (W) See pages 25-29 for explanation of General Education requirements.

RELIGION

Chair: Jack J. Blanco

Faculty: Ron Clouzet, Ron du Preez, Norman R. Gulley, Donn Leatherman, Derek J. Morris

Adjunct Faculty: Douglas Bennett, Bruce Norman, Ken Rogers, Leo Van Dolson

Advisory Council—Ministerial Recommendations: SC Religion Faculty, Presidents of Conferences within the Southern Union, Southern Union Ministerial Directors, Vice President for Student Services, Director of Student Finance and Accounts, head deans of the two dormitories, college chaplain, college church pastor

As an integral part of Southern College the Religion Department has been given the responsibility by the Board of Trustees to continue to prepare young men and women in theology for the Seminary, the field, and religious education for denominational schools. It also has been asked to provide a degree in Religious Studies and courses in general religion for all students. Courses are designed to enhance their commitment of students to Jesus Christ and their involvement in the mission of the Seventh-day Adventist Church.

MISSION STATEMENT

The Religion Department seeks to provide general education courses that will encourage students to experience an ongoing saving relationship with Jesus Christ, that will enable students to live responsibly and ethically in harmony with the Holy Scriptures and that will further their understanding of the Christian beliefs and values of the Seventh-day Adventist Church.

In addition, the department seeks to provide programs in theology, religious education, and religious studies of a quality that will enable its graduates to find employment and/or enter graduate programs in these or other fields and that will equip them to apply the knowledge and skills of their major field in "real world" situations.

DEPARTMENTAL GOALS

General Education Courses

1. To provide instruction in the Scriptures that enhances an intelligent faith in Jesus Christ.
2. To encourage development of a set of values that will provide a basis for moral decision-making in the Christian life.
3. To acquaint the students with the teachings, history, and global mission of the Seventh-day Adventist Church.

Theology

1. To provide an adequate pre-Seminary training in biblical backgrounds, languages, history, theology, and church ministries to meet entrance requirements to the MDiv degree program offered by Andrews University.
2. To provide instruction and practical experience in church ministries and public evangelism as outlined in the requirements of the Certification for Ministry.

3. To provide professional training that prepares graduates to serve the church effectively in their chosen career.

Religious Education

1. To prepare the student for state and church certification (in cooperation with the Department of Education and Psychology) on the elementary or secondary levels.
2. To support candidates in meeting the requirements of the Education and Psychology Department and its certifying officer by offering a course in Curriculum and Content Methods/Bible and by supervising student teaching.
3. To qualify students to pursue graduate work in biblical and religious studies.

Religious Studies

1. To provide a basic course in biblical and religious studies without meeting the professional requirements of the other two majors.
2. To provide a major for students who are involved in preprofessional programs or who elect a double major, one of which is Religion.
3. To prepare students to become well-informed, local church leaders.

DEPARTMENTAL EFFECTIVENESS

The Religion Department is committed to develop an ongoing assessment and strategy to measure its effectiveness in harmony with the Mission Statement of Southern College, its own mission statement, and the recommendation of the Southern Association of Colleges and Schools.

Faculty Assessment

Effectiveness of the department's faculty and program is directly or indirectly assessed by:

1. Student evaluations of all classes administered regularly through the office of the Vice President for Academic Administration.
2. Departmental majors in the final semester of their senior year.
3. The annual meeting of the faculty with the Chair of the Board and the presidents of conferences within the Southern Union.
4. The yearly meeting of the Ministerial Training Advisory Committee (MTAC) of the North American Division at the Seventh-day Adventist Theological Seminary of Andrews University which coordinates the ministerial programs of all Religion Departments through their respective chairs.

Student Assessment

The quality of the department's graduates as well as its general students is assessed by:

1. A 16PF taken by all Theology majors in their sophomore and senior years with norms arrived at by extensive research of the performance of successful Adventist pastors. If a student's scores differ greatly from these norms, the faculty member assigned to administer the test meets with the student to discuss potential difficulties and to suggest strategies for improvement. This may involve referral to a professional for personal or career counseling.

Classes in Homiletics, Church Ministry, Interpersonal Ministry, and the Summer Field School of Evangelism measure the student's proficiency in those areas. A performance evaluation is submitted by the instructor(s) and kept in the student's file for future reference. This may involve referral to a professional for personal or career counseling.

2. The 16PF is administered by the Department of Education and Psychology to all Religious Education majors. If the student's scores indicate potential difficulties, the Department of Religion is asked to assist in strategies for improvement.
3. A cumulative record of Religious Studies majors is kept as a source of information and recommendation. This record includes data needed for academic advisement and guidance for graduate work or placement.
4. The religion portion of the annual assessment testing program is prepared by the General Education Committee and is administered to all students through the office of the Vice President for Academic Administration.

NOTE: A summary of the evaluations referred to above will be made available in the form of a check sheet to prospective employers who request it and will be signed by the department chair on behalf of the Religion faculty. The department itself cannot guarantee employment.

PROGRAM REQUIREMENTS

Admission to Theology Program

Students seeking admission to the Theology Program must make formal application the first semester of the sophomore year. (Upper class transfer students must apply during the first semester in residence.) A program of evaluation by the instructors of the student's over-all potential for success in ministry, including consideration of his or her academic progress, emotional stability, social and professional skills precedes individual acceptance as a Ministerial Trainee. If at any time, after being admitted to the Theology Program, trainees give evidence of failing to maintain commitment to the criteria or preparation for ministry, they forfeit their standing as trainees and the department's recognition in their senior year as Ministerial Candidates. Theology students must have 55 hours with a 2.50 overall GPA and have taken the department's 16PF to be eligible to be recommended for acceptance as Ministerial Trainees. Acceptance into the ministerial program as a trainee or a candidate is required for the completion of the major in Theology. Students not accepted into the program may choose to complete a major in Religious Studies.

Ministerial Certification and Endorsement

Students wishing to be recommended by the department for denominational employment as ministerial candidates must fulfill the following requirements:

1. Successfully complete the 30-hour B.A. major in Theology.
2. Fulfill requirements for a minor in Biblical Languages.
3. Complete classes for Ministerial Certification.
4. Take required cognates.
5. Pass exit examinations with a score of 70 or above.

Students may apply to the department for variances #2, #3, and #4, provided they meet the following qualifications:

1. Must have attained the age of 35 years prior to enrolling.
2. Must transfer a minimum of 48 semester hours applicable to the program.
3. Must have been active in church work and be recommended by their local conferences for ministerial training on the basis of this work.
4. Must have individualized study programs approved by the department prior to being recommended for ministerial candidacy.

Directed Field Education

The department requires field education of Theology majors. These experiences are designed to enhance professional development by acquainting the student with the multi-faceted responsibilities of ministry, to provide a laboratory for working with experienced pastors and lay leaders in visitation of both active and inactive members, and to allow experience in preaching to area congregations. These experiences are necessary before the student can be recommended by the department for church employment.

Summer Field School of Evangelism

Full-scale evangelistic meetings will be conducted for two months each summer under the direction of the Southern Union Conference of Seventh-day Adventists and the Department of Religion. All Theology majors are required to participate in one such crusade. The department will offer six hours of academic credit in public and personal evangelism and the Southern Union will provide a scholarship for those who are approved by the faculty to participate. Students planning to take the Summer Field School program must have 55 hours with a 2.5 cumulative GPA and RELP 321, 322 to be recommended for admittance. Applications and scholarship information may be obtained from the departmental secretary. Additional evangelistic opportunities for individual students and student teams may be made available upon approval of the department to accommodate requests from the conferences within the Southern Union.

Admission to Religious Education Program

The Religious Education Program is coordinated with the Department of Education and Psychology for the college. Planning for certification by the states and/or endorsement by the Seventh-day Adventist church for Bible teaching is made with the certifying officer of the Education and Psychology Department, both for admission to the Religious Education program in the sophomore year and to the professional semester before the senior year.

The criteria for admission to Religious Education, requirements for secondary Bible teaching, and policies and procedures related to student teaching may be found in the college catalog under the Department of Education and Psychology and obtained from the secretary of the department in Summerour Hall.

Teacher Certification and Endorsement

Those seeking Tennessee State Certification must fulfill requirements listed on page 118 of this catalog.

Admission to Religious Studies

The Religious Studies major is chosen by students interested in pursuing a degree other than a Theology or Religious Education degree, or by students preparing for professional fields such as medicine, dentistry, law, and other graduate studies.

It is a 124-hour liberal arts major and provides a balanced selection of both biblical studies and theology courses. The four-year degree candidate may apply the required 12 hours of General Education courses in religion toward the hours needed for the major, thus reducing the number of extra courses needed to qualify.

General Education Courses in Religion

The objective in all religion courses is to enhance knowledge of and appreciation for the Scriptures, and to assist the student in gaining and maintaining a vital involvement with Jesus Christ, and a personal commitment to serve family, church, community, and the world. Six semester hours of religion are required of the two-year graduate, and 12 semester hours of the four-year graduate. This is equivalent to one three-year course per year which may be selected from any of the religion courses offered. Bachelor degree students must take at least three semester hours at the upper division level. (Detailed information on General Education requirements are found in the college catalog.)

Graduation Requirements

The candidates for graduation in the program for **Theology** must have a 2.00 overall, a 2.25 in their major and in the area of candidacy in order to graduate, and a 2.50 overall for Seminary entrance. In addition to their major they must have 20 hours in Biblical Languages, 24 hours in professional training, and 12 hours in cognates to qualify for Ministerial Candidacy. They must also give evidence of moral, physical, social, and intellectual fitness and demonstrate professional commitment in order for the department to recommend them as prospective ministerial employees. Those students pursuing the **Religious Education** major must have a 2.00 overall and a 2.50 in education and in the field of certification as outlined by the Department of Education and Psychology. The **Religious Studies** candidates for graduation, from the Department of Religion, must have a cumulative grade point average of 2.00 overall and a 2.25 in their major as outlined in the college catalog. All majors must take their respective exit examinations and pass with a score of 70 percent or above prior to graduation.

BACHELOR OF ARTS DEGREE PROGRAMS

The bachelor of arts degree in **Theology** and **Religious Education** requires courses in biblical studies and religion of which three are introductory with others covering the Old and New Testament, the prophetic books of Daniel and Revelation, and the Fundamental Beliefs of Seventh-day Adventists in the light of Christian Theology.

Major—Theology and Religious Education (30 Hours)

<u>Required Courses</u>	<u>Hours</u>	<u>Required Courses, cont.</u>	<u>Hours</u>
RELB 125 Life & Teachings of Jesus	3	RELB 426 Studies in Revelation	3
RELT 138 Adventist Heritage	3	RELB 435 New Testament Studies I	3
RELB 345 Old Testament Studies I (W)	3	RELB 436 New Testament Studies II (W)	3
RELB 346 Old Testament Studies II	3	RELT 484 Christian Theology I	3
RELB 425 Studies in Daniel	3	RELT 485 Christian Theology II	3

Major—Theology (30 Hours)

Must also include 20 hours in Biblical Languages, 24 hours for Certification for Ministry, and cognate requirements as follows:

<u>Minor in Biblical Languages</u>	<u>Hours</u>
RELL 251-252 Biblical Hebrew	3,3
RELL 271-272 Elements of NT Greek I, II	4,4
RELL 311-312 Inter NT Greek I,II	3,3

<u>Certification for Ministry</u>	<u>Hours</u>
RELP 273 Interpersonal Ministry	3
RELP 321 Intro to Biblical Preaching	2
RELP 322 Inter Biblical Preaching	2
RELP 423 Advanced Biblical Preaching	2
RELP 424 Evangelistic Preaching	2

<u>Certification for Ministry, cont.</u>	<u>Hours</u>
RELP 451-452 Church Ministry I, II	3,3
RELP 465 Personal Evangelism	3
RELP 466 Public Evangelism	3
RELT 265 Spiritual Formation I	1

<u>Required Cognates</u> (Count toward General Education)	
HIST 364-365 Christian Church I,II	3,3
PSYC 124 Intro to Psychology	3
RELB 301 Biblical Exegesis	3
SPCH 135 Intro to Public Speaking	3

<u>Guidelines for Gen Ed Electives</u>	<u>Hours</u>
ACCT 103 College Accounting	3
CPTR 105 Word Processing	1
EDUC 134 Prin of Christian Education	2
ENGL 335 Biblical Literature	3

<u>Guidelines for Gen Ed Electives</u>	<u>Hours</u>
HLED 173 Health and Life	2
MUHL 215 Music in the Christian Church	2
RELP 354 Intro to Pastoral Counseling	3
SOCI 223 Marriage and the Family	2

Note: The department recommends that those majoring in Theology not simultaneously take REL 251-252, Biblical Hebrew, REL 271-272, Elements of Greek, or REL 311-312, Intermediate Greek.

Sample Freshman year Sequence
B.A. Theology

<u>1st Semester</u>	<u>Hours</u>
ENGL 101 College Composition	3
PEAC 125 Conditioning	1
RELB 125 Life & Teachings of Jesus	3
Area A-2 Math	3
Area E-4, Science	3
Area G-2, Skills	3
	16

<u>2nd Semester</u>	<u>Hours</u>
ENGL 102 College Composition	3
PSYC 124 Intro to Psychology	3
RELT 138 Adventist Heritage	3
RELT 265 Spiritual Formation I	1
SPCH 135 Intro to Public Speaking	3
Area E, Science	3
	16

Major—Religious Education (30 Hours)

Must include 28 hours in Education and cognate requirements as follows:

<u>Professional Education Reqmnts</u>	<u>Hours</u>
EDUC 135 Intro to Education	2
EDUC 217 Psych Found of Ed	2
EDUC 240 Educ for Excep Childr & Yth	2
EDUC 250 Technology in Education	2
EDUC 325 Philosophy of Christian Ed	2
EDUC 356 Classroom Assessment	2

<u>Professional Education Reqmnts</u>	<u>Hours</u>
EDUC 422 Behavior Mgmt for Adolescents	2
EDUC 432 Reading in Content - Secondary	2
EDUC 437 Curricular and General Methods	1
EDUC 438 Curricular Content Methods/Bible	1
EDUC 468 Enhanced Student Tchng 7-12	10

<u>Required Cognates</u>	<u>Hours</u>	<u>Guidelines for General Ed Electives</u>	<u>Hours</u>
SPCH 135 Intro to Public Speaking	3	ACCT 103 College Accounting	3
RELB 301 Biblical Exegesis	3	HLED 173 Health and Life	2
RELL 271-272 Elements of NT Greek, I, II	4,4	REL P 354 Intro to Pastoral Counseling	3
REL P 321 Intro to Biblical Preaching	2	SPCH 136 Interpersonal Communication	3
REL P 322 Inter Biblical Preaching	2		

Sample Freshman Year Sequence
B.A. Religious Education

<u>1st Semester</u>	<u>Hours</u>	<u>2nd Semester</u>	<u>Hours</u>
EDUC 135 Intro to Education	2	EDUC 217 Psych Foundations of Ed	2
ENGL 101 College Composition	3	ENGL 102 College Composition	3
PEAC 125 Conditioning	1	RELT 138 Adventist Heritage	3
RELB 125 Life & Teachings of Jesus	3	RELT 265 Spiritual Formation I	1
RELT 138 Adventist Heritage	3	SPCH 135 Intro to Public Speaking	3
Area A-2 Math	3	Area E-4, Science	3
	16		16

Major—Religious Studies (30 Hours)

<u>Required Courses</u>	<u>Hours</u>	<u>Required Courses, cont.</u>	<u>Hours</u>
RELB 125 Life & Teachings of Jesus	3	RELT 138 Adventist Heritage	3
RELB 345 Old Testament Studies I (W)	3	RELT 255 Christian Beliefs	3
RELB 346 Old Testament Studies II	3	RELT 368 Comparative Religions (W)	3
RELB 435 New Testament Studies I	3	RELT 373 Christian Ethics	3
RELB 436 New Testament Studies II (W)	3	RELT 467 Phil and the Christian Faith (W)	3

<u>Required Cognate</u>	<u>Hours</u>
SPCH 135 Intro to Public Speaking	3

Sample Freshman Year Sequence
B.A. Religious Studies

<u>1st Semester</u>	<u>Hours</u>	<u>2nd Semester</u>	<u>Hours</u>
ENGL 101 College Composition	3	ENGL 102 College Composition	3
PEAC 125 Conditioning	1	RELT 255 Christian Beliefs	3
RELB 125 Life & Teachings of Jesus	3	RELT 265 Spiritual Formation I	1
RELT 138 Adventist Heritage	3	SPCH 135 Intro to Public Speaking	3
Area A-2 Math	3	Area E-4, Science	3
Area G-2, Skills	3	Area F-1, Behavioral Sci	3
	16		16

**MINORS IN RELIGION, BIBLICAL
LANGUAGES, AND PRACTICAL THEOLOGY**

Minor—Religion (18 Hours)

<u>Required Courses</u>	<u>Hours</u>	<u>One Course Chosen from:</u>	<u>Hours</u>
RELB 125 Life & Teachings of Jesus	3	REL P 273 Interpersonal Ministry	3
RELT 138 Adventist Heritage	3	REL P 354 Intro to Pastoral Counseling	3
AND		REL P 465 Personal Evangelism	3
Upper Division Courses	6	REL P 468 Health Evangelism	3
Religion Electives	6	RELT 317 Issues in Physical Science I	3
		RELT 318 Issues in Physical Science II	3
		RELT 424 Issues in Natural Science	3

Those seeking state certification and/or denominational endorsement for teaching in other areas could, with careful selection, also acquire a minor in Religion.

Minor—Biblical Languages (20 Hours)

This minor requires 20 hours from RELL 251-252, Biblical Hebrew; 271-272, Elements of New Testament Greek; and 311-312, Intermediate New Testament Greek.

Minor—Practical Theology (19 Hours)*

<u>Required Courses</u>		<u>Hours</u>	<u>Required Courses</u>		<u>Hours</u>
REL 273	Interpersonal Ministry	3	REL 451-452	Church Ministry I, II	3,3
REL 321	Intro to Biblical Preaching	2	REL 465	Personal Evangelism	3
REL 322	Inter Biblical Preaching	2	REL 466	Public Evangelism	3

*Non-theology majors must obtain permission from the Religion Department.

BIBLICAL STUDIES**REL 125. Life and Teachings of Jesus (B-1) 3 hours**

A study of the life, ministry, and teachings of Jesus with special emphasis on His teachings as they apply to the personal, social, and religious problems of the individual. (Fall, Spring, Summer)

REL 175. Acts of the Apostles (B-1) 3 hours

A study of the development of the church during apostolic times, including an introduction to the characters, issues, and events that shaped the earliest Christian communities and the theological development of the gospel by the early church. (Fall)

REL 301. Biblical Exegesis (B-1) 3 hours

Prerequisite: One year of Biblical language.

This course is to introduce the student to Biblical Exegesis (i.e. the application of the principles of hermeneutics) in passages of the Bible that are representative of the various literary genres found in the Old and New Testaments. The objective is to acquaint the student with the various presuppositions that determine the choice of hermeneutical approaches to the text; with guidelines (rules) for each step of the interpretation of the text; and to provide an opportunity for involvement in the process of biblical exegesis. (Fall, Spring as needed)

REL 335. Archeology and the Bible (B-1) 3 hours

A study of cultures, customs, languages, and rituals that throw light on the understanding of Scriptures based on archeological and other ancient material which, interpreted from the viewpoint of the Bible, emphasizes its accuracy and authenticity. (Fall, Spring, occasional Summer)

REL 345. Old Testament Studies I (B-1) (W) 3 hours

An introduction to the Pentateuch and Writings, two major division of the Old Testament. Attention will be given to the structure, theme, theology, historical setting, and significance of this literature in Christian interpretation. Various approaches to the study of the Old Testament will be surveyed. (Fall, Summers as needed)

REL 346. Old Testament Studies II (B-1) 3 hours

An introduction to the Prophets, a third major division of the Old Testament. Attention will be given to the structure, theme, theology, historical setting, and significance of this literature in Christian interpretation. (Spring, Summers as needed)

RELB 425. Studies in Daniel (B-1) (W) 3 hours

Recommended: HIST 174, 175.

A study of selected historical and prophetic portions of Daniel to discover their meaning and relevance for today. (Fall, Summers as needed)

RELB 426. Studies in Revelation (B-1) 3 hours

Recommended: HIST 174, 175.

A study of the prophecies and symbolisms of Revelation with their historical fulfillments. Special attention will be given to discovering its special message for our day. (Spring, Summers as needed)

RELB 435. New Testament Studies I (B-1) 3 hours

A brief introduction to and an exegetical study of the following epistles in the order of their composition: Galatians, I and II Thessalonians, I and II Corinthians, and James. Includes a background survey of the book of Acts. (Fall, Summers as needed)

RELB 436. New Testament Studies II (B-1) (W) 3 hours

A brief introduction to and an exegetical study of Romans, the Prison, Pastoral, and General epistles, (excluding James) and Hebrews. (Spring, Summers as needed)

RELB 295/495. Directed Study 1-3 hours

This course is limited primarily to departmental majors and must be approved by the chair of the Religion Department. Occasionally the course may be conducted as a seminar and published in the schedule of classes. This course may be repeated for credit. (Fall, Spring, Summer)

BIBLICAL LANGUAGES

RELL 251-252. Biblical Hebrew (D-1) 3,3 hours

A foundation course in the grammar, syntax, and lexicography of classical Biblical Hebrew, with an emphasis on reading skills. Laboratory work required. (Fall, Spring)

RELL 271-272. Elements of New Testament Greek (D-1) 4,4 hours

A study of grammar of the vernacular (*koine*) Greek of New Testament times, with readings in the epistles of John. Laboratory work required. (Fall, Spring)

RELL 311-312. Intermediate New Testament Greek (D-1) 3,3 hours

A course in advanced studies, grammar, and syntax of (*koine*) Greek with translation of readings from the Gospel of John, the Synoptics, and the Pauline Epistles. (Fall, Spring)

RELL 295/495. Directed Study 1-3 hours

This course is limited primarily to departmental majors and must be approved by the chair of the Religion Department. Occasionally the course may be conducted as a seminar and published in the schedule of classes. This course may be repeated for credit. (Fall, Spring, Summer)

PROFESSIONAL TRAINING

RELP 251. Introduction to Youth Ministry (B-3) 3 hours

This course will explore the Biblical basis for a specialized ministry to children, youth, and young adults. The students will become acquainted with current research, contemporary approaches, and available resources to enhance ministry to youth. Practical experience in area churches will be required. (Fall)

REL 273. Interpersonal Ministry 3 hours

The development of listening skills and interpersonal communication in pastoral visitation with special emphasis on revitalizing inactive members. Laboratory work in area churches will be required. (Fall)

REL 321. Introduction to Biblical Preaching 2 hours

Prerequisite: SPCH 135.

This introductory course examines the foundations for effective Biblical preaching. Attention will be given to the call and preparation of the preacher, principles of Biblical hermeneutics, the elements of sermon formulation, and principles of sermon delivery. A topical, biographical, or narrative sermon will be preached and analyzed in a peer review setting. (Fall)

REL 322. Intermediate Biblical Preaching 2 hours

Prerequisites: RELB 301 and RELP 321.

This course focuses on the preparation and delivery of expository sermons. Attention will be given to the discovery of the exegetical idea of the text, the formulation of the homiletical idea, and how to preach with conviction. Expository sermons will be preached and analyzed in a peer review setting. (Spring)

REL 354. Introduction to Pastoral Counseling (B-3) 3 hours

This course is an introduction to pastoral redemptive care. Visitation to correctional and rehabilitation centers, hospitals, and nursing homes will be required. This course is not designed as an introduction to professional counseling. (Spring)

REL 423. Advanced Biblical Preaching 2 hours

Prerequisite: RELP 322.

This course explores further methods of expository preaching such as narrative and induction. It also focuses on preaching for special needs and situations, and the development of sermon series emphasizing the great themes of Scripture. Sermons will be preached and analyzed in a peer review setting. (Fall)

REL 424. Evangelistic Preaching 2 hours

Prerequisite: RELP 423.

This course concentrates on the development and delivery of soul-winning sermons with emphasis on decision. Instruction will include sermon preparation for an evangelistic series. Sermons will be preached in a peer review setting. (Spring)

REL 451. Church Ministry I 3 hours

An introduction to church ministry, this course focuses on the responsibilities of clergy and laity, including the call to discipleship and/or ministry, the study of denominational polity, the administrative structure of the church on all levels, and the relationship of the local church to the community. Laboratory work in area churches will be required. (Fall)

REL 452. Church Ministry II 3 hours

Consideration is given the various professional tasks of the pastor, such as pastoral care, administration, leadership in worship, and conducting baptisms, weddings, anointing services, funerals, etc. Laboratory work in area churches will be required. (Spring)

REL 465. Personal Evangelism (B-3) 3 hours

Attention will be given to the principles and practice of one-to-one evangelism, the presentation of the gospel, and the giving of Bible studies. The giving of such studies will be modeled in class and field work with local churches will be required. Theology students must take this course immediately preceding RELP 466, Public Evangelism. (Spring)

RELP 466. Public Evangelism*Prerequisite:* RELP 465.**3 hours**

A study of the principles employed in preparing and conducting public evangelistic meetings. The student will learn how to plan, develop, and hold an evangelistic series. This course is available only in connection with the Field School of Evangelism. The consent of the Religion Department must be obtained prior to enrollment. A total tuition waiver applies to this class according to the policy on page 236. (Summer)

RELP 468. Health Evangelism (B-3)**3 hours**

A study of the concepts and methods of creating witnessing opportunities through taking advantage of the current interest in preventive health practices and lifestyle changes. The objective of these concepts and methods is to obtain decisions for a more abundant way of life and to lead men and women to Christ. The course also will provide future church leaders with practical ways to utilize the talents of members in health evangelism. Laboratory work in area churches and/or community settings is required. (Fall, Spring, Summers as needed)

RELP 295/495. Directed Study**1-3 hours**

This course is limited primarily to departmental majors and must be approved by the chair of the Religion Department. Occasionally the course may be conducted as a seminar and published in the schedule of classes. This course may be repeated for credit. (Fall, Spring, Summer)

RELIGION AND THEOLOGY**RELT 138. Adventist Heritage (B-2)****3 hours**

A study of the Second Advent Awakening in the nineteenth century and the subsequent development of the Seventh-day Adventist Church. Special emphasis will be placed on the contributory role in the church of the Spiritual Gift of Prophecy through the life and ministry of Ellen G. White. (Fall, Spring, Summer)

RELT 205. Introduction to Christian Missions (B-2)**3 hours**

Christian Missions aims at creating an awareness of global missions, its challenges and opportunities, problems and possibilities. The course includes an investigation of the biblical and theological foundations of mission, basic principles of church growth in the practice of mission, essential elements of cross-cultural communication, and relevant insights from applied anthropology. (Spring)

RELT 225. Last-Day Events (B-2)**3 hours**

Last-Day Events is a biblical, theological, and historical study of eschatology rooted in its Christ-centered focus. It considers the unique Seventh-day Adventist contribution over against that made by leading scholars both in the past and present. Also it examines the New Age Movement and Dispensationalism and focuses on how to be ready for the end event. (Fall, Spring, Summer)

RELT 255. Christian Beliefs (B-2)**3 hours**

Christian Beliefs is a study of Adventist doctrines in a Christ-centered context. This course will involve a study of the major teachings, with a view to enhancing the student's understanding and ability to provide biblical support for his/her faith. (Fall, Spring, Summer)

RELT 265. Spiritual Formation I (B-2)**1 hour**

A historical and theological study of Christian spirituality. This course provides a basic introduction to the class spiritual disciplines, with an emphasis on prayer and fasting, including a practical application of the dynamics of these spiritual disciplines as a means of enriching the spiritual life. (Fall, Spring)

RELT 266. Spiritual Formation II (B-2) 1 hour**Prerequisite:** RELT 265.

A continued study of the classic spiritual disciplines of the Christian faith with an emphasis on Scripture as a dynamic in personal spiritual formation. This course will focus on contemplative reading of Scripture, journaling, meditation on Scripture, and Scripture memorization. (Spring)

***RELT 317. Issues in Physical Science and Religion I (B-2) 3 hours**

See PHYS 317 for course description.

***RELT 318. Issues in Physical Science and Religion II (B-2) 3 hours**

See PHYS 318 for course description.

RELT 368. Comparative Religions (B-2) (W) 3 hours

A study of several major representative Christian and non-Christian religions, including a survey of the history and the distinctive characteristics of each. RELT 368 will require observational field work. (Spring)

RELT 373. Christian Ethics (B-2) 3 hours

A foundation course in moral decision-making in the fields of bio-ethics, moral ethics, and personal ethics. The objective is to discover timeless norms by which to make basic ethical decisions across the professional spectrum. These norms are then applied to issues relevant to the student. Limited to nursing students or students with Junior/Senior class standing. (Fall, Spring, Summers as needed)

***RELT 424. Issues in Natural Science and Religion (B-2) (W) 3 hours**

See BIOL 424 for course description.

RELT 465. Topics in Religion (B-2) 1-3 hours

This course is designed to provide an exposure to a wide range of religious studies dealing with issues encountered in evangelism, theological areas, and Biblical studies. The content will change, as needed, so the course may be repeated once for credit. Open to all students. (As needed)

RELT 467. Philosophy and the Christian Faith (B-2) (W) 3 hours

A study of the main thinkers and schools of thought from the Middle Ages to the present and their influence on biblical theology. Also, attention will be given to various world views which are shaping Christian thought today. (Fall)

RELT 484. Christian Theology I (B-2) 3 hours**Recommended:** RELT 255 or the equivalent.

Christian Theology I examines the major loci of Christian beliefs such as the Doctrine of God, Christology, Pneumatology, Anthropology, Soteriology, Ecclesiology, and Eschatology covering the 27 Seventh-day Adventist Fundamental Beliefs. This is to equip the student to know the doctrines of the church from Scripture and to present them to others. (Fall)

RELT 485. Christian Theology II (B-2) 3 hours**Prerequisite:** RELT 484.

Christian Theology II is a study of the theological issues within the Seventh-day Adventist Church as they relate to the 27 Seventh-day Adventist Fundamental Beliefs. This is to strengthen confidence in Scripture and to equip the student to preach with certainty. (Spring)

*One of the "Issues" courses can apply to General Education natural science requirement for majors, and to Religion for nonmajors.

RELT 295/495. Directed Study **1-3 hours**
This course is limited primarily to departmental majors and must be approved by the chair of the Religion Department. Occasionally the course may be conducted as a seminar and published in the schedule of classes. This course may be repeated for credit. (Fall, Spring, Summer)

EDUCATION

EDUC 438. Curriculum and Content Methods/Bible **1 hour**
Prerequisite: Admission to Teacher Education.
Attention is given to methods and materials construction, planning, testing and evaluating student performance, and the survey and evaluation of textbooks. (As needed)

(B-1) (B-2) (B-3) (D-1) (W) See pages 22-23 and 25-29 for explanation of General Degree and General Education requirements.

INTERDEPARTMENTAL PROGRAMS

MEDICAL SCIENCE

Adviser: Stephen A. Nyirady

A Bachelor of Science Degree in Medical Science will be conferred upon students not already in possession of a bachelor's degree who satisfy the following three conditions:

1. Complete 93 semester hours in an accredited undergraduate college program of which at least the last 30 were taken in residence at Southern College and at least 12 of which were at the upper division level.
2. Meet the general education requirements equivalent to those outlined for the current Medical Technology program.
3. Provide certification from an accredited professional school of dentistry, medicine, or optometry that the first year of the respective professional program has been successfully completed and that the applicant is eligible to continue.

Request for the conferral of this degree is made to the Director of Records and Advisement.

GENERAL STUDIES

Adviser: Peggy Smith

The Associate of Arts and Associate of Science degrees with a major in General Studies are designed for students who have not made a career decision at the time they enter college. These degrees offer them an opportunity to earn a large part of the general requirements for a baccalaureate degree while leaving some semester hours free for exploration in areas of their choice.

ASSOCIATE OF ARTS DEGREE IN GENERAL STUDIES

Major: The completion of the general education requirements for the Bachelor of Arts degree with the exception that 6 hours instead of 12 will be required for Area B, Religion. A course in speech must be included. A minimum total of 64 semester hours with a Southern College and cumulative minimum grade point average of 2.00 is required. Students who plan eventually to complete a bachelor's degree should include some upper division credit and a "W" (writing emphasis) course in the second semester of their second year.

*Six hours of elementary foreign language must be included unless two units of the same language were earned in high school.

Typical Sequence of Courses for
A.A. General Studies

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Comp	3	3		Area B, Religion	3	
	Area B, Religion	3			Area E, Nat Sci	3	
	Area E-1, Nat Sci	3			Area D, Lang/Lit		
	G-3, Rec Skills		1		Fine Arts	3	
	Elective (area of interest)	3	3		Area D, Speech		3
	Area C, History	3	3		Area A, Math		0-3
	Area G, Act Skls	1	3		Area C, Govt/Econ		3
	Area F, Beh Sci		3		Area F, Beh Sci		2
		16	16		Area G, Skills		1
					Foreign Language	3	3
					Electives	4	4-1
						16	16

See pages 22-23 and 25-29 for general degree and general education requirements. Note especially requirements for make-up of any admissions deficiencies.

ASSOCIATE OF SCIENCE DEGREE IN GENERAL STUDIES

Major: The completion of the general education requirements for the Bachelor of Science degree with the exception that 6 hours instead of 12 will be required for Area B, Religion. A course in speech must be included. A minimum total of 64 semester hours with a Southern College and cumulative minimum grade point average of 2.00 is required. Students who plan eventually to complete a bachelor's degree should include some upper division credit and a "W" (writing emphasis) course in the second semester of their second year.

Typical Sequence of Courses for
A.S. General Studies

YEAR 1		Semester		YEAR 2		Semester	
		1st	2nd			1st	2nd
ENGL 101-102	College Comp	3	3		Area B, Religion	3	
	Area B, Religion	3			Area E, Nat Sci	3	
	Area E-1, Nat Sci	3			Area D, Lang/Lit		
	G-3, Rec Skills		1		Fine Arts	3	
	Elective (area of interest)	3	3		Area D, Speech		3
	Area C, History	3	3		Area A, Math		0-3
	Area G, Act Skls	1	3		Area C, Govt/Econ		3
	Area F, Beh Sci		3		Area F, Beh Sci		2
		16	16		Area G, Skills		1
					Electives	7	4-1
						16	16

See pages 22-23 and 25-29 for general degree and general education requirements. Note especially requirements for make-up of any admissions deficiencies.

NON-DEGREE PREPROFESSIONAL PROGRAMS

Preprofessional and pretechnical curricula are offered in a wide variety of fields. Below are listed the curricula most frequently chosen. If other preprofessional programs are desired, faculty advisors are prepared to assist the student in working out a satisfactory sequence of courses needed to meet the admission requirements of the chosen professional school.

ANESTHESIA

Adviser: Bonnie Hunt

Registered nurses who are comfortable working in critical care areas may become registered nurse anesthetists. Graduation from an approved program of nursing and a valid nursing license is required. Additional requirements may be determined by consulting the Department of Nursing.

DENTISTRY

Adviser: John Perumal

Pre-dental training in college requires a minimum of three years of study; however, a preference is given to those who have completed a fourth year, earning a bachelor's degree. Students may major in the field of their interest. Although a thorough background in the biological and physical sciences is essential to the study of dentistry, a broad educational background in the humanities is desirable. Upper division biology courses are recommended to prepare for the Dental Admissions Test and for the first year of basic science courses in dental school.

Application to dental school should be made one year previous to the one for which admission is desired. Successful applicants should have a minimum G.P.A. of 3.00 in both science and non-science courses as well as satisfactory performance on the Dental Admissions Test (given each October and April). Information regarding the Dental Admission Testing Program may be obtained from the American Dental Association, 211 East Chicago Avenue, Chicago, IL 69611.

The following courses must be included to meet the minimum requirements for admissions to the LLU School of Dentistry:

BIOL 151-152	8 hours
CHEM 151-152, 311-312, 313-314	16 hours
ENGL 101-102	6 hours
PHYS 211-212, 213-214	8 hours

The following courses are strongly recommended: Ceramics, Principles of Management, Basic Accounting, Precalculus, Nutrition, Histology, Biochemistry, and Psychology courses.

LAW

Adviser: Ben McArthur

Students interested in the study of law as a profession should become acquainted with the entrance requirements of various law schools. This will make possible the planning of a preprofessional program which will qualify the student for admission to several schools.

It is a general requirement that students complete a bachelor's degree before entering law school. Although no particular major is required, four fields should be especially considered by the student serious about law school. These are: business, history, English, and behavioral science. Certain courses recommended by all law schools include American history, freshman composition, principles of accounting, American government, principles of economics, English history, business law, and mathematics. Pre-law students should concentrate on developing their analytical, verbal, and writing skills.

Southern College offers a Political Economy minor, which combines an interdisciplinary selection of courses helpful for law school preparation. This eighteen-hour minor consists of:

- | | |
|---|---------|
| 1. ECON 224 Principles of Economics | 3 hours |
| 2. PLSC 254 American Government | 3 hours |
| 3. PLSC 471 Classics of Western Thought I <u>OR</u> | |
| PLSC 472 Classics of Western Thought II | 3 hours |
| 4. ENGL 313 Expository Writing | 3 hours |

Plus six hours selected from the following courses:

5. ACCT 221 Principles of Accounting
6. ECON 225 Principles of Economics
7. BUAD 358 Legal, Ethical, and Social Environment of Business
8. BUAD 339 Business Law
9. HIST/PLSC 357 Modern America
10. HIST 374 History of England
11. JOUR 427 Mass Media Law and Ethics

Information about preparation for law school may be obtained from the Section of Legal Education and Admissions to the Bar, American Bar Association, 1155 East 60th Street, Chicago, Illinois 60637. For information about the Law School Admissions Test, see the pre-law adviser.

MEDICINE

Advisers: William Hayes, Joyce Azevedo

Secondary school students who look forward to a career in medicine are advised to include mathematics and science courses during their high school years.

Most applicants complete a Bachelor's Degree prior to entrance into medical school. Exceptional students may be eligible to apply after completion of a minimum of 85 semester hours. Applicants for admission to the Loma Linda University School of Medicine should maintain a grade point average of at least 3.50 in both science and non-science courses. The following courses without an asterisk must be included in the applicant's academic program. Medical schools generally do not accept CLEP credits

for these basic science courses. Classes with (*) asterisks in biology, chemistry, and mathematics are recommended.

BIOL 151-152, 313*, 316*, 330*, 340*, 415*, 417*, 418*	8 hours
CHEM 151-152, 311-312, 313-314, 323*	16 hours
ENGL 101-102	6 hours
MATH 120, 121, 181*	3 hours
PHYS 211-212, 213-214	8 hours
Religion	12 hours

It is recommended that students plan a curriculum that includes study of the humanities and social sciences to provide a solid preparation for the future role of the physician.

Applicants are also encouraged to obtain experience where they are directly involved in the providing of health care. The Biology Department collaborates with Chattanooga's Erlanger Medical Center in a premedical preceptorship program. This program provides the opportunity for upper division pre-medical students to shadow resident physicians in the hospital for up to 24-hour periods.

The applicant is required to have taken the new Medical College Admission Test (MCAT) prior to consideration by the admissions committee. This exam is administered twice a year—in August and April. Application for the exam is made through the Counseling and Testing Center one month before the exam is scheduled. For entrance into medical school following graduation, the student should plan on taking the MCAT in April of the junior year. All of the above required science courses should be completed by this time to insure maximum performance on the MCAT exam. The exam may be retaken in August of the senior year.

Once or twice each year representatives from LLU and other schools of medicine visit the campus to interview prospective students. Premedical students are encouraged to make appointments to speak with them.

Most medical schools are members of the American Medical College Application Service (AMCAS). Applications must be submitted through this service. The AMCAS application may be obtained from the Testing and Counseling Office or directly from AMCAS and should be sent directly to AMCAS between June 16 and November 1 for entry in the summer of the following year.

American Medical College Application Service
1176 Massachusetts Avenue, N.W.
Washington, DC 20036-1989

After receiving the applications from AMCAS, the admissions office of the medical school reviews the candidates and determines whether or not supplementary information is needed.

Medical schools usually require a letter of recommendation from the pre-professional recommendation committee of the applicant's undergraduate college. Senior pre-medical students are asked to provide the names and addresses of all medical schools to which they are applying to the Vice President for Academic Administration's office before October 1.

Following a careful evaluation of the supplementary application and letters of recommendation submitted to the admissions office, selected applicants may be invited for a personal interview by the medical school.

OPTOMETRY

Adviser: Orville Bignall

The admission requirements to colleges of optometry vary, so the student should follow the catalog from the school of his/her choice. However, all place emphasis on biology, chemistry, mathematics and physics. Additional courses in the areas of fine arts, language, literature, and the social sciences are usually necessary.

A minimum of two years of preoptometric study is required. However, additional study increases the prospects of acceptance into professional training.

Following is a list of preoptometry courses required by most schools:

BIOL 151-152, 415, 418	18 hours
CHEM 151-152, 311, 314	14 hours
ENGL 101-102	6 hours
MATH 120, 121, 181, 182, 215	15 hours
PHYS 211-212, 213-214	8 hours
PSYC 124	3 hours

Direct individual inquiries are welcomed by the American Optometric Association, Division of Education and Manpower, 243 North Lindbergh Blvd., St. Louis, MO 63141.

OSTEOPATHIC MEDICINE

Adviser: William Hayes, Joyce Azevedo

An alternative to allopathic medical schools, which grant the M.D. degree, are the osteopathic medical schools whose graduates receive the D.O. degree.

Many Seventh-day Adventists have attended the University of Health Sciences, College of Osteopathic Medicine in Kansas City, Missouri, one of fifteen osteopathic medical colleges in this country.

Requirements for admission are similar to those for allopathic medical schools such as Loma Linda University School of Medicine.

For a reasonable chance of acceptance, a minimum grade point average of 3.00 should be maintained in both science and non-science subjects.

PHARMACY

Adviser: Sterling Sigsworth

The bachelor's degree program in pharmacy normally requires five years, the first two years of which may be taken at Southern College.

Admission requirements to colleges of pharmacy are somewhat variable so the student should consult the catalog of the school of his/her choice for specific course recommendations.

Minimum admission requirements to the University of Tennessee College of Pharmacy at Memphis are:

ACCT 221	3 hours
BIOL 151-152	8 hours
CHEM 151-152, 311-312, 313-314	16 hours
ENGL 101-102	6 hours
MATH 181	3 hours
PHYS 211-212, 213-214	8 hours

Additional requirements include:

Literature or Foreign Language	4 hours
Social Sciences:	
Psychology	2 hours
Other (to include Economics, Political Science, Sociology, History, etc.)	8 hours
Speech	3 hours
Electives	8 hours

A minimum grade of C must be obtained for each required pre-pharmacy class. A higher grade point average will increase the chance of acceptance into pharmacy school. In addition, a satisfactory score must be achieved on the National Pharmacy College Admission Test.

VETERINARY MEDICINE

Adviser: Stephen A. Nyirady

Competition for admission to colleges of veterinary medicine is keen. Consequently, most successful applicants have completed a degree rather than the minimum requirements listed below. It should also be noted that it is difficult to be accepted in any veterinary institution other than the school in the state where the applicant resides.

The applicant must make a satisfactory score on the Veterinary College Admission Test (VCAT) in addition to meeting grade point average and personal qualifications for admission. Professional training involves four years of veterinary school beyond college.

Minimum admission requirements to the University of Tennessee College of Veterinary Medicine in Knoxville are:

BIOL 151-152, 316, 412	15 hours
CHEM 151-152, 311-312, 313-314, 323	20 hours
ENGL 101-102	6 hours
MATH 181-182	7 hours
PHYS 211-212, 213-214	8 hours

Additional requirements include:

Humanities and Social Sciences	18 hours
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Admission requirements will vary between veterinary schools; therefore, it is recommended that the pre-veterinary student work closely with his/her adviser in assuring that the specific requirements for the schools of his/her choice are met.

SOFTWARE TECHNOLOGY CENTER

Chair: Timothy D. Korson

Associate Director: Dalton Athey

The Software Technology Center (STC) is a research Center of Southern College. It is sponsored by the Consortium for the Management of Emerging Software Technology, which sponsors similar centers at Clemson University and Georgia State University.

The STC is separate from the Computer Science and Technology Department and does not offer formal classes, but its faculty may hold a joint appointment in the academic unit under whose auspices students may receive credit for approved activities.

The STC also offers motivated students employment opportunities to work with the latest computer equipment and to interact with professors and major corporations involved in research in emerging software technologies.

FINANCIAL POLICIES

EXPENSES

FINANCIAL BUDGET AND CAMPUS EMPLOYMENT

Southern College tries to give every student the opportunity to obtain a Christian education. Every effort will be made to assist students in meeting their financial obligation in order to reach this goal.

The Student Finance Office will assist students in their financial planning. Financial aid is available to qualified recipients in the form of grants, loans, scholarships and employment (see page 247). Before registration each student must submit a Payment Contract to the Student Finance Office signed by the student and financial sponsor indicating how college expenses will be paid.

Information on student costs and means of paying those costs is given below to assist the student in financial planning.

STUDENT COSTS

Tuition 1995-96:

Students taking 1-11 semester hours will be charged at a rate of \$377 per semester hour. Students taking 12-16 semester hours will be charged \$4,440. Additional hours will be charged at the rate of \$282 per semester hour. Summer school tuition for 1995 will be charged at the rate of \$282 per semester hour. Payment for each summer school session is required in full at time of registration.

ESTIMATED STUDENT BUDGET

	Residence Hall Student		Non-residence Hall Student	
	Semester	Year	Semester	Year
Tuition (12-16 hrs/semester)	\$4,440	\$8,880	\$4,440	\$8,880
Dormitory Rent	790	1,580		
Food (\$257 monthly average)				
Monthly minimum charge \$85)	1,031	2,062		
Books and School Supplies	265	530	265	530
Total Estimated Costs*	\$6,526	\$13,052	\$4,705	\$9,410

(Health insurance, automobile parking, and Campus Shop personal purchases are in addition, if applicable.)

*With financial aid and/or labor, this total figure can be substantially reduced.

FAMILY REBATE

When two students from the same immediate family who have the same financial sponsor are enrolled at Southern College at the same time, they may receive a 5 percent discount on tuition. This also applies to married student couples. A 10 percent discount will be given when three or more students are enrolled at SC at the same time, and who have the same financial sponsor.

When two students are enrolled at SC from the same immediate family who have the same financial sponsor, and one is a Student Missionary/Task Force Worker and is enrolled in the 12 hours Christian Service course, the Student Missionary/Task Force Worker will not receive an additional discount; however, the brother or sister who is enrolled at Southern will receive a 5 percent tuition discount. If the Student Missionary/Task Force Worker is not enrolled in the 12 hours Christian Service course, no discount will be given to the sibling enrolled on the SC campus.

When three or more students are enrolled at SC from the same immediate family who have the same financial sponsor, and one is a Student Missionary/Task Force Worker and is enrolled in the 12 hours Christian Service course, the Student Missionary/Task Force Worker will not receive an additional discount; however the students who are enrolled at Southern will receive a 10 percent tuition discount. If the Student Missionary/Task Force Worker is not enrolled in the 12 hours Christian Service course, a 5 percent tuition discount will be given to the siblings enrolled on the SC campus.

MUSIC LESSON FEES PER SEMESTER

With credit: *\$130.00 plus tuition*

A student will receive 14 lessons per semester.

Without credit: *\$175.00*

A student will receive 14 half-hour lessons per semester.

Without credit: *\$350.00*

A student will receive 14 one-hour lessons per semester.

Music lesson fee refunds are calculated on the basis of the number of lessons taken during the first four weeks of the semester, after which no refunds are granted. Students taking lessons with or without credit must submit a Change of Class form to the Records Office at the time the lessons are discontinued to be eligible for a refund.

Excused absences may be made up at the discretion of the teacher if previous arrangements have been made. Lessons falling on holidays or during vacations will not be made up unless this results in the student having fewer than 14 lessons for the semester.

Music majors who are currently enrolled in or have completed MUCT 111-112 and 121-122 and who have been accepted to receive Concentration credit pay only one fee per semester to cover all private lessons.

SPECIAL FEES AND CHARGES

The following special fees and charges* are assessed separately inasmuch as they may not apply to all students nor do they occur regularly:

Application for admission (not refundable) \$20.00
 Audit tuition 1/2 reg. tuition
 Automobile parking fee (per semester):

Dormitory	\$36.00
Village	\$26.00
Motorcycle parking fee	\$26.00
Cancellation of registration	\$50.00
Change of program	\$12.00
Credit by examination (per hour) recording fee	\$35.00

Examinations:

Challenge or waiver	\$48.00
CLEP	\$40.00
Rescheduling midterm or final	\$63.00
Incomplete grade recorded	\$7.50
Insufficient funds check fee and penalty	\$18.00

****Insurance:**

Student	\$336.00
Spouse	\$1,056.00
Children	\$838.00
Late Registration	\$35.00
Late return of organizational uniform	\$20.00

(The full cost will be charged if irreparably damaged or not returned.)

Lost residence hall key or replacement:

Talge Hall	\$25.00
Thatcher Hall	\$25.00
Lost student I.D. or replacement (must pay cash)	\$5.00
Medical Technology recording fee (senior year)	\$55.00

*****Nursing education fees:**

Associate degree (per semester)	\$300.00
Baccalaureate degree (per nursing semester hour after completing Associate degree)	\$13.00
Packing and Moving Fee	\$50.00
Registration Fee (processing documents) (\$12.50 per semester)	\$25.00
Transcript Fee — Same Day Service	\$5.00

*See individual class descriptions for class fees and charges.

**Subject to change by insurance company.

***Declared nursing majors enrolled in a nursing class.

STATEMENT CHARGES

The following items may be charged to the student's account:

- Books and required school supplies (required school supplies limited to \$85 per semester).
- Private music instruction. Enrollment for all music instruction must be made through the Admissions Office for a full semester whether or not credit is desired. One semester hour of private music instruction consists of fourteen half hour lessons. Refunds will be granted only when the instructor is not available for lessons.

HOUSING**Residence Hall Costs**

Dormitory accommodations for single students cost \$1,580 for the eight-month school year and are charged on a semester basis in August and January. Room charges are based on two students occupying one room. A student may, upon application to the residence hall dean, be allowed to room alone at an additional cost of \$335 per semester if sufficient rooms are available and s/he has approval from the Student Finance Office. It is the student's responsibility to have arranged for a roommate unless specific arrangements have been made to room alone. No pets are allowed in the residence halls.

No refunds are made for vacation periods or absences from the campus. When a student withdraws, a prorated portion of the semester charge, beginning with the date of nonoccupancy of the room, will be refunded.

Residence Hall Deposit

A room cleaning deposit of \$150 is required of each dormitory student. In order to guarantee a room in the dormitory, payment should be made by July 1. After July 1, no room is held for a student whose deposit has not been paid. This deposit is held in reserve until the student graduates and/or permanently moves out of the dormitory.

Apartment

College-owned apartments may be rented by married students taking a minimum of six hours each semester. The apartments range in size from two to six rooms and are rented furnished or unfurnished. Rents range from \$262 to \$355 per month. Rent is paid in advance and begins when the key is issued. Charges are based on the date of issue and return of keys and proper clearance with the office of the Vice President for Financial Administration. No pets or firearms are allowed in college housing.

Apartment Deposit

Married students and single students over 23 years of age renting an apartment from the college pay a housing deposit of \$200 to reserve an apartment.

Housing Deposit Refund

If a student gives notice before August 1 that s/he will not be attending, the housing deposit will be refunded. Damage or cleaning charges may also be charged to the student's account if the deposit is insufficient to cover these costs. The Housekeeping Supervisor at the Service Department will determine if the apartment has been left clean and undamaged.

FOOD SERVICE

The cafeteria plan of boarding allows the dorm student the privilege of choosing food and paying for what is selected. Students are encouraged to eat healthfully by eating at the cafeteria or the Campus Kitchen where balanced meals are provided. Dormitory students will be charged a minimum of \$85 per month which will be prorated for vacations and holidays.

ADVANCE PAYMENTS

Regular: An advance payment of \$2,000 is required before registration with one-half of the advance payment (\$1,000) being held for second semester. For new students entering second semester the advance payment is \$1,000, and all other appropriate charges are applicable. When a married couple enrolls for a combined total of seventeen semester hours or less of classwork, they will be charged only one advance payment.

One-half of the advance payment (\$1,000) is held for second semester and earns interest at an APR of 2 percent less than prime for the months of September, October, November, December if: (1) the full advance payment (\$2,000) has been paid by September 1, and (2) the account balance as of November 30 is paid in full. Interest will be credited to the January statement.

For students residing in any dormitory or married student housing, a housing deposit is due before occupancy and is in addition to the advance payment.

International Student Deposit: In addition to the regular college costs (including the advance payment listed above), international

students must provide a deposit as indicated below. The deposit must be received by the Accounting Office before a U.S. Immigration Form I-20 is sent to the prospective student for entry to the U.S. Because mail service from many foreign countries takes time, this deposit should be sent six weeks prior to enrollment. This deposit, paid once, remains untouched (with interest paid at the rate of 2 percent less than prime, based on the prime rate at the time of deposit) until the student completes studies here, decides to go elsewhere, or gets into financial difficulty at which time the international deposit will be applied to the student's account. If there remains a credit balance, the deposit will be refunded after the final statement is issued.

An International Student Deposit of \$3,000 U.S. is required of all international students except documented permanent residents of the U.S. or residents of Canada.

Deposit Reduction or Waiver: If the parent of the international student is employed full time by an organization that provides educational assistance, consideration may be given to reducing or waiving the deposit, based on the amount of assistance provided as confirmed in writing by the employer.

Nursing Students: Upon acceptance to the clinical nursing program, students are required to send an advance payment of \$300 to hold their placement in the class. This payment also serves as the first semester's Nursing Education Associate Degree Fee. The \$300 fee is in addition to the Regular Advance Payment of \$2,000. There is also a \$300 fee charged to the A.S. nursing student's account second semester. If a student applies for the nursing program but does not attend the college or changes to a different major, the deposit is refundable if the Department of Nursing is notified by August 1. After August 1, the nursing deposit is not refundable.

ADVENTIST COLLEGES ABROAD FINANCIAL POLICY

Students wishing to apply for study abroad under the Adventist Colleges Abroad (ACA) program must follow the procedures listed below:

1. Obtain an ACA application from Southern College's Admissions Office.
2. Complete and return the ACA application, along with a \$100 application fee, to the SC Admissions Office.
3. Follow one of the following payment plans:
 - a. Pay the total amount of tuition, room, board, hospital and accident insurance, personal account deposit, and tour deposit of chosen school by August 1.
 - b. Semester System: Pay one-half of the total charges and tour charge by August 1. The remaining one-half must be paid by November 1.
 - c. Quarter System: Pay one-third of the total charges and tour charge by August 1; one-third by November 1; and the remaining one-third by February 1.
4. Make all payments by cash, cashier's check, money order, or credit card.

No college funded scholarships will be awarded to ACA students. When planning their finances for the ACA program students must:

1. Have a current account at Southern College
2. Have completed all necessary paper work for federal financial assistance and received a financial aid award letter before August 1

3. Subtract tuition assistance or federal financial aid from the total ACA charges due
4. Pay SC for charges before the college will make payment to ACA.

METHODS OF PAYMENT

Residence hall and nonresidence hall students may choose one of the three methods of payment below:

Payment Plan I—Cash in Advance. When the total estimated charges for tuition (minimum 6 hours), room, and board for a semester are paid in cash at registration, a discount of 3 percent for the semester or 5 percent for the year is allowed on this cash payment. Amounts paid as a result of student loans, grants, or scholarships are excluded from the amount on which the discount is allowed. Students choosing to pay cash in advance must on or before registration time, pay the full amount required by the plan for the semester or year, less any advance payments or credits.

The following schedule outlines how *Payment Plan I* would work for both a semester and the year:

	Residence Hall Student		Non-residence Hall Student	
	Semester	Year	Semester	Year
Total estimated charges (see Estimated Student Budget)	\$6,526	\$13,052	\$4,705	\$9,410
* (a) Less cash discount (3% for semester)	-196		-142	
or				
* (b) Less cash discount (5% for year)		-653		-471
Net cash due at registration	<u>\$6,722</u>	<u>\$12,399</u>	<u>\$4,847</u>	<u>\$9,881</u>

Note: For calculating the discount, estimated charges may be reduced by approved financial aid and scholarship awards (excluding student wages). Cash discount applies to the cash paid at registration.

Payment Plan II—Tuition Guaranteed Plan. The college will guarantee to the student that tuition will remain constant under the following provisions:

1. This plan is not available to students receiving financial aid. However, parents taking a Parent Plus Loan may include this amount in their payment.
2. The tuition rate in effect at the time of the first contract will remain in effect until the student graduates provided full time continuous registration is maintained not to exceed four years excluding a one-year leave of absence which may be given for student missionaries, ACA, or task force workers. This plan is not applicable to summer school.
3. Total estimated cost for the year must be paid prior to or at fall registration.
4. Any cash withdrawals, except student earnings, will void the contract.
5. Participants in this plan are eligible for a 5 percent cash discount on the total estimated cost the first year of participation only (calculated as in Payment Plan I). The next three years, the tuition rate will remain the same as year one; and a 5 percent discount will be given on room, board, and books only.

6. Dependents of denominational workers may deduct the denominational tuition assistance when making their payment; however, the tuition assistance must be received by the college from either the denominational employer or the denominational worker within two months after registration or the contract is void.
7. Student earnings may be withdrawn from the student's account and will not reduce the amount to be paid.
8. Costs in excess of the total estimated amount to be paid will be billed monthly and should be paid on a monthly basis or the contract is void.
9. Should the estimated cost be less than the amount paid, the credit will be refunded after June 1.
10. If the Payment Contract is broken for any of the above reasons, or the student withdraws during the school year, the student who re-enters Payment Plan II may do so based on the rates of enrollment for the new year.

This plan only guarantees the tuition rate—not the room, board, books, and other miscellaneous charges. The student/financial sponsor must pre-pay each year the total estimated costs.

Payment Plan III—Contract for Monthly Payments. Students desiring to pay educational expenses in installments on a monthly basis may choose this plan.

Monthly statements will be issued 5 to 7 working days after the last day of the month. Cafeteria charges will be charged through the last day of each month. Accounts are due and payable upon receipt of statement according to the following schedule:

FIRST SEMESTER

		Past Due Date
August Statement	1. ONE-THIRD of the semester's charges for tuition and room less ONE-THIRD of the semester's credits for financial aid and ONE-THIRD of the semester's advance payment. 2. Plus the current month's charges less the current month's credits.	September 20
September Statement	1. ONE-THIRD of the semester's charges for tuition and room less ONE-THIRD of the semester's credits for financial aid and ONE-THIRD of the semester's advance payment. 2. Plus the current month's charges less the current month's credits.	October 20
October Statement	1. ONE-THIRD of the semester's charges for tuition and room less ONE-THIRD of the semester's credits for financial aid and ONE-THIRD of the semester's advance payment. 2. Plus the current month's charges less the current month's credits.	November 20

SECOND SEMESTER

Past Due Date

January Statement	1. ONE-THIRD of the semester's charges for tuition and room less ONE-THIRD of the semester's credits for financial aid and ONE-THIRD of the semester's advance payment. 2. Plus the current month's charges less the current month's credits.	February 20
February Statement	1. ONE-THIRD of the semester's charges for tuition and room less ONE-THIRD of the semester's credits for financial aid and ONE-THIRD of the semester's advance payment. 2. Plus the current month's charges less the current month's credits.	March 20
March Statement	1. ONE-THIRD of the semester's charges for tuition and room less ONE-THIRD of the semester's credits for financial aid and ONE-THIRD of the semester's advance payment. 2. Plus the current month's charges less the current month's credits.	April 20

An example of estimated school costs on this plan without financial aid, work, or scholarships is as follows:

Statement Date	Payment Date	Residence Hall Student	Non-Residence Hall Student
Advance Payment	By registration	\$2,000	\$2,000
August 31	By September 20	1,842	1,235
September 30	By October 20	1,842	1,235
October 31	By November 20	1,842	1,235
January 31	By February 20	1,842	1,235
February 28	By March 20	1,842	1,235
March 31	By April 20	<u>1,842</u>	<u>1,235</u>
Total estimated payments		\$13,052	\$9,410

Students planning to enroll for fewer than 6 hours are required to pay the tuition in full prior to registration.

Payment for summer school sessions is required at time of registration.

Students with unpaid accounts on the 20th of the month will be subject to cancellation of registration and/or ID cards invalidated until account is current.

Arrangement for final payment of the semester account must be made before semester examinations may be taken or before registration for a new semester.

INTEREST ON PAST-DUE BALANCE

If a past due balance on the November statement is not paid by December 20, a service charge of 5 percent of the past due amount will be applied to the December statement. If a past due balance on the March statement is not paid by April 20, a service charge of 5 percent of the past due amount will be applied to the April statement. A monthly service charge of 1 percent will be charged on any past due balance for the months of May, June, July, and August.

COLLECTION POLICY

Students completing or terminating their studies with the college are required to make arrangements for payment of unpaid accounts prior to leaving by signing a promissory note. Payments due on noncurrent accounts that are not received by the last working day of the month will be charged a 1 percent per month service charge.

When a student who was enrolled first semester does not enroll second semester and has left with an unpaid account, that account will be turned over to Southern College's Student Loan Services Office by February 15.

When a student leaves at the end of second semester who has not reapplied, the account will be turned over to the SC Student Loan Services Office by June 15.

When a student leaves at the end of second semester with an unpaid account who has reapplied for the following year, the student will have May through August to bring the account current. If the student decides not to return, then this account will be turned over to the SC Student Loan Services Office by September 15.

At the time any account is turned over to the SC Student Loan Services Office, a carrying charge of 1 percent per month will apply.

When a non-current account is 90 days past-due and neither payments nor communication have been received, and unsuccessful attempts have been made by the SC Student Loan Services Office to contact the individual, the account will be reported to a nationally recognized credit bureau, and will be submitted to a collection agency or attorney.

Since delinquent accounts are reported to the credit bureau systems, prompt payment of accounts builds credit ratings which will be important to the student in the future.

If the college deems it necessary to employ a collection agency or an attorney to collect defaulted accounts, all charges for these services, including court costs, if incurred, will be added to unpaid bills.

LEGAL PROCEEDINGS

Recognizing that former students owing money to Southern College involve themselves in various legal proceedings which can affect money owed to the college, the college has taken the position that no services will be rendered these individuals until court confirmation has been received confirming the legal actions taken.

BANKRUPTCY

Recognizing that the discharge of a debt through bankruptcy proceedings prohibits a creditor from subsequently pursuing the collection of the debt, the college, upon notification by the court of such discharge of a student's current school or loan account(s), complies with this legal prohibition. The bankruptcy of the financial sponsor in no way changes the underlying financial obligation of the student to pay his or her student account. No further services will be extended.

TRANSCRIPTS, DIPLOMAS, AND TEST SCORES

It is the policy of the college to withhold transcripts, diplomas, test scores, certificates of completion, and other records if a student has an unpaid or past-due account at the school, or any unpaid account for which the college has co-signed.

An official grade transcript will be issued for a currently enrolled student when the student's account is current according to the payment schedule set forth above. Exceptions may be considered to receive an official grade transcript when the account is current except for the disbursement of any Federal student loan for which eligibility has been established. A student's failure to comply with instructions can delay the release of a transcript.

Official grade transcripts for nonenrolled students will be issued when students' accounts are paid in full and when there are no delinquencies in the payment of student loans. No exceptions will be made.

When payment is made by personal check, the transcript will be held for 10 working days to allow the check to clear. To expedite the release of these documents, the student should send a money order or certified check to cover the balance of the account when requesting the documents. Under provisions of federal loan programs, Southern College withholds any records when payments for these loans become past due or are in default.

TUITION WAIVERS

Tuition waivers are available for internships, cooperative education, and practicum classes.

To be eligible for a tuition waiver students must be enrolled in fewer than 11 hours excluding their tuition waiver class, or more than 16 hours including their tuition waiver class. The waiver is calculated on the margins of hours below 12 and above 16 resulting from the tuition waiver class.

Tuition waivers for classes involving tours, are calculated according to approved travel arrangements.

REFUND POLICIES*Complete Withdrawal from Classes*

A student who withdraws from all school work during the semester will receive a tuition refund based on the date the completed withdrawal form with all the required signatures is filed with the Records Office. Music lesson refunds are calculated according to a separate policy as explained on page 228.

Tuition refunds are calculated as follows:

1st Week	100%	6th Week	50%
2nd Week	90%	7th Week	40%
3rd Week	80%	8th Week	30%
4th Week	70%	9th Week	20%
5th Week	60%	10th Week	10%
		11th Week	0%

Partial Withdrawal

Refunds of tuition for semester hours dropped are made according to the date the drop form with all the required signatures is filed with the Records Office. Tuition refunds are calculated as follows:

First week of the semester — 100%

Second week through the eleventh week — 10% less per week

No refunds after the eleventh week

Shortened School Term (Summer or Other) Withdrawals and Changes

First two (2) school days — 100%

Third (3rd day through end of term) — Prorated through mid-term

CREDIT REFUND POLICY

Credit balances are refundable, upon request, 30 days after the monthly statement is received for the last month the student was in school in order to be certain that all charges have been processed. For example, if a student drops out of school in December, a full credit refund would not be made until after the January statement is prepared during the first week of February. When the credit balance is large, a portion may be refunded earlier upon request to the Disbursements Office.

If the student has received financial aid during the current semester, any credit balance will be credited to the aid funds, according to the Financial Aid Refund Policy (see page 236). Cash refunds will not be made to the student without authorization from the parent or financial sponsor.

HEALTH AND ACCIDENT INSURANCE

Southern College requires all students to be covered by health and accident insurance. Each student will automatically be enrolled in the college health and accident plan unless the s/he signs a waiver card at the time of registration indicating s/he does not want the college insurance because:

1. The student has other insurance equal to or better than the college insurance plan.
2. The student is covered under the SDA denominational health care plan.
3. The student does not live in college-owned housing and is taking less than six semester hours of classwork during the fall and spring semesters or less than three hours of classwork in the summer.

NON-LIABILITY FOR PERSONAL EFFECTS

When determining what to bring to campus, students should remember that the college is not responsible for the personal effects of any student even though such effects may be required by the college for student use, or

required by the college to be stored in a designated location. College-carried insurance does not insure the personal effects of any individual. The college recommends that students consider carrying insurance to cover such losses.

WORKER'S COMPENSATION INSURANCE

As provided by the laws of the State of Tennessee, the college carries worker's compensation insurance to protect all employees in case of work-related accidents.

STUDENT BANKING SERVICE

When opening a student bank account, the student or financial sponsor may contact the Cashier's Office to make the proper arrangements. This is entirely separate from the student's school expense account. Withdrawals from this account may be made by the student in person as long as a credit balance and proper identification are provided. If a check is deposited into this account, the student must wait two weeks for it to clear the banking system before a withdrawal may be made.

STUDENT PAYROLL AND CASH WITHDRAWALS POLICY

Employment is provided for students through the Personnel/Student Labor Office for the purpose of meeting their school expenses. Inquiries concerning student employment may be made by contacting that office at (615) 238-3396.

Students may withdraw up to 25% of their earnings for tithe and personal items if their account is current, or if they have a credit on their account. (If students have chosen to have their tithe automatically withheld, they may withdraw up to 15% of their earnings.) Additional cash withdrawals may be made by exception:

1. Students who have sufficient financial aid to cover their tuition and books, and who live out of the dorm and have a no-charge ID card may be allowed to withdraw all of their earnings for living expenses.
2. Students whose parents pay their accounts using Payment Plan I or II are allowed to withdraw all of their earnings with written permission from their parents.
3. Students under the College Work/Study Program must follow federal guidelines for cash withdrawals from their accounts. They must contact their financial counselor for more information.

The payroll period normally covers a four-week time frame, with the cutoff date being 10-14 working days prior to the end of the month. Earnings will be credited to students' accounts when the monthly statements have run.

On-campus summer earnings should remain on the students' accounts to accumulate toward their advance payment.

No cash may be withdrawn until students have received their monthly statement (5-7 working days after the last day of the month). Students must bring their current monthly statement with them to the Student Finance Office.

CHECK CASHING

Students are encouraged to use their home banks or a local area bank for their personal financial services. The Cashier's Office will cash approved checks not to exceed \$300. No third party checks will be honored. Checks must be made payable to either the student or cash. Proper identification is required.

Each time a check is returned by a bank for insufficient funds, account closed, or any other reason, there will be an \$18 returned check fee made to the student's account. The student then forfeits the privilege of cashing future checks.

CREDIT CARDS

The Cashier's Office honors VISA, MasterCard, Discover, and American Express cards for making payments on a student's account. **No cash withdrawal service is available from these cards**—this service may be obtained from a local bank.

When using a credit card to pay on an account, the following information must be supplied: 1) name of credit card being used; 2) cardholder's name; 3) credit card number; and, 4) expiration date.

STUDENT LABOR REGULATIONS

Work opportunities are available in departments and industries operated by the college and at local private businesses. Students seeking employment should contact the Personnel/Student Employment office for a listing of available positions or to register their employment needs.

Although Southern College cannot guarantee a student employment, the College will endeavor to find a work opportunity either at the College or at a local business. Students are urged to arrange class schedules that allow "blocks" of time for work.

All hiring formalities are made in the Personnel/Student Employment Office. Students must bring their Social Security cards and one identification, e.g., passport, driver's license, or original birth certificate, in order to complete the hiring process legally. Students who are not American citizens must produce an unexpired employment authorization document such as a valid I-20 or other legal document before employment can be arranged.

Students are expected to maintain satisfactory job performance and meet all work appointments, including during examination week. Work superintendents reserve the right to dismiss students if their service and work records are unsatisfactory. Should a student find it necessary to be absent from work, s/he must make arrangements with the work superintendent and, if ill, with Student Health Service.

A student accepting employment is expected to retain it for the entire semester except in cases where changes are recommended by the school nurse or Personnel/Student Employment Office. Should a student receive opportunities for more favorable employment during a school term, the transfer must be made through the Personnel/Student Employment Office and the two employing departments. If a financial plan requires work, the student must NOT drop his/her work schedule without making proper arrangements with the Personnel/Student Employment Office. To do so may result in suspension from class attendance and invalidation of ID card until proper arrangements are made.

The student pay rate is not less than the current minimum wage rate. It may be higher if a student possesses special skills or training and shows responsibility and consistency.

Students who work more than 20 hours per individual week or who are enrolled for less than nine hours of credit will have Social Security taxes (FICA) withheld from their earnings.

Students may work off campus; however, permission may be withheld for off-campus employment that could be detrimental to a student's health or character development.

SUMMER WORK INCENTIVE PROGRAM

1. Work supervisors may recommend raises for a student's summer wage within the pre-set wage rate scale.
2. Two-thirds of the dormitory student's summer rent to be refunded, provided:
 - A. A minimum of 200 hours of summer work is completed.
 - B. The student is enrolled for at least six hours for the fall term.
3. Any variation to the above plan must be approved by the Administrative Council.

LABOR FOR FOREIGN STUDENTS

Foreign students on non-immigrant visas are required by law to secure permission before accepting any off-campus employment. Foreign students with student visas are allowed to work on campus up to twenty hours a week. Spouses may work only if they have student visas of their own or have immigrant visas.

STUDENT TITHING

Southern College encourages the payment of tithe and offerings by its student workers. In order to facilitate this practice, arrangements may be made by the student (except for those employed in the Federal Work-Study Program) to have 10 percent of his/her school earnings charged to his/her account as tithe and 2 percent for offerings. These funds are then transferred by the college to the treasurer of the Collegedale Seventh-day Adventist Church.

STUDENT MISSIONS PROGRAM/TASK FORCE POSITIONS

Any student desiring to serve as a Student Missionary or in a Task Force position needs to work with the Chaplain's Office. The General Conference policy requires the completion of the course, Student Missions Orientation Class, NOND 099, prior to placement in a volunteer position. The orientation class is taught the last nine weeks of the second semester. Students who register for NOND 099 will not receive any academic credit hours.

Those students who desire deferment on their student loan payments during their mission service placement must enroll in: NOND 227 Christian Service I, 6 hours, and NOND 228 Christian Service II, 6 hours.

To receive 12 hours of academic credit, the student must complete a full academic year of service. Students enrolled in NOND 227 and 228 must have taken NOND 099 as a prerequisite. A maximum of 12 hours is available during the year of service. Tuition is charged at 10 percent of the

current rate. Specific details regarding academic assignments may be obtained from the Chaplain's Office.

Before final authorization may be obtained, all students going as Student Missionaries or Task Force workers must be cleared by the Student Finance Office.

If a Student Missionary/Task Force Worker has a sibling attending Southern College, please see the section on "Family Rebate."

POST GRADUATE TUITION PLAN

A Post Graduate Tuition Plan has been established for the purpose of assisting students who have graduated from an accredited college/university and have an earned bachelor's degree. The plan allows eligible students to enroll in classes for one-half tuition. Tuition rates are as follows:

1-11 Semester Hours	\$189.00 per hour
12-16 Semester Hours	\$2,220.00
17+Hours (in excess of 16 hours)	\$141.00 per hour

The provisions that apply are:

1. To be eligible for the Post Graduate Tuition Plan, a student must have graduated with a bachelor's degree at least two years before entering the program.
2. Applicants must have a clear financial SC account and all loan payments must be up-to-date at the time of registration before the Post Graduate Tuition Plan is approved. To continue to participate in the plan, students must reapply each semester. If a participant's account or loan payment becomes delinquent, that student will lose his/her Post Graduate Tuition Plan privileges and cannot be reinstated.
3. Regular readmission criteria apply to this program. Completed applications and other college transcripts must be on file in the Admissions Office no later than four weeks prior to the beginning of the semester for which the graduate is applying.
4. Students wishing financial aid must apply through the Student Finance Office.
5. This plan is applicable to classes where space is available and where the hiring of new faculty or staff is not required. The Post Graduate Tuition Plan does not include private music lessons, independent study, directed study, student teaching, internships, A.S. nursing, the fifth year of a five-year degree program, or a program where a tuition discount is already in effect.
6. Since the Post Graduate Tuition Plan offer is for tuition only, it does not apply to lab fees, surcharges for applicable courses, dormitory charges, books, or cafeteria charges.
7. This program is open to a limited number of students. Southern College reserves the right to discontinue or amend this special tuition offer at the discretion of the college administration.

SENIOR CITIZEN TUITION PLAN

Persons over 65 years of age may audit any regular college course free of charge, provided there is space available and sufficient enrollment of students paying regular tuition to offer the class. Lab fees will be charged where required.

They may take classes for college credit at one-fourth the regular rate, provided there is space available and sufficient enrollment of students paying regular tuition to offer the class. Lab fees will be charged where required.

They may enroll in seminars, workshops, other courses offered outside the regular academic structure, and private lessons at full price.

FINANCIAL AID

Southern College provides financial aid for students in the form of loans, grants, scholarships, and employment. No applicant for financial aid will be denied assistance on the basis of sex, race, color, national origin, or ethnic group. The Student Finance Office follows established procedures and practices which will assure equitable and consistent treatment of all applicants.

Students are urged to contact the Student Finance Office, P.O. Box 370, Collegedale, Tennessee 37315-0370, (1-800-SOUTHERN), for information about and applications for financial aid. Applications received by March 1 will be given preference. Applications received after March 1 will be processed as long as time and funds permit.

General Requirements. Financial aid awards are made for one academic year to students who are accepted for admission and demonstrate a financial need. Recipients of government aid **must hold U.S. citizenship or a permanent resident visa.** (Visa documents must be submitted with aid application.) Students desiring aid **must** reapply each year, have a GED or high school diploma on file in the Records Office, and continue to make satisfactory academic progress toward a degree to receive financial aid.

WARNING: If a student purposely gives false or misleading information on the Federal Aid Application, s/he may be fined \$10,000, sent to prison, or both.

Academic Requirements. In order to be eligible for financial aid, recipients must maintain satisfactory academic progress toward a degree. (Satisfactory academic progress is defined in the following section.) If a student does not maintain satisfactory academic progress or fails to attend classes, prepare and submit required classwork, or take required examinations, financial aid will be suspended.

If a student whose financial aid has been suspended for any of the above reasons feels that unusual and unavoidable circumstances led to this suspension, the suspension may be appealed to the Academic Progress Committee. This policy is generally applied to financial aid from institutional and private sources as well as federal programs.

Financial Need Requirements. The financial aid program is administered in conjunction with the nationally-established policy and philosophy which is, that the **parents are the primary and responsible source for helping a student to meet his/her educational costs.** Financial aid is available to help fill the gap between the student's own resources (parental contribution, summer earnings, and savings) and the total cost of attending Southern College. The amount of parental contribution is based on the family's net income, number of dependents, allowable expenses, indebtedness, and assets. The Family Financial Need Analysis from the American

College Testing Program or College Scholarship Service is used in determining a student's eligibility for financial aid.

Exceptions to the financial need requirements are private scholarships awarded on the basis of academic achievement.

SOUTHERN COLLEGE ACADEMIC PROGRESS FOR FEDERAL AND INSTITUTIONAL STUDENT FINANCIAL AID

According to the 1986 Higher Education Amendments, all financial aid recipients must maintain satisfactory academic progress toward a degree, both in a qualitative and a quantitative measure, in order to continue to receive financial aid.

A financial aid recipient's progress at Southern College will be based on the student's enrollment status which is determined by the number of hours attempted. Academic progress will be measured by the number of hours the student has successfully completed during the semester.

A financial aid recipient will be expected to complete not less than the minimum hours required by his/her enrollment status of:

- | | |
|--------------|------------------|
| 1. Full time | 12 hours or more |
| 2. 3/4 time | 9-11 hours |
| 3. 1/2 time | 6-8 hours |

This would allow a student the equivalent of 10 full-time semesters to complete a four year degree; and the equivalent of six full-time semesters to complete a two year degree.

Classification of the full-time student for academic record keeping only is defined: Students enrolled for twelve or more semester hours and students in the last semester of their senior year who are taking all the courses required for graduation (but no fewer than eight semester hours) will be defined as full-time students.

Formula For Academic Progress

Enrollment status (as outlined above) x 12 hours (full-time equivalent) = hours needed for progress. **A student who fails to meet this formula will have until June 30 of the award year to successfully complete the required hours. No federal aid is available for make-up hours.**

For the purpose of this policy, a student must also maintain a cumulative and resident grade point average above the suspension levels as stated in the following schedules:

<i>Cumulative Semester Hours</i>	<i>Required GPA Level (Includes Resident and Cumulative GPA)</i>
6 - 48	1.50
49 - 64	1.65
65 - 80	1.75
81 - 93	1.85
94 - 119	1.95
120 up	2.00

A student's financial aid will be suspended if s/he does not maintain satisfactory academic progress as set forth above.

Financial Aid Probation Policy

1. Students who fail to maintain "satisfactory academic progress" will be placed on financial aid probation the following semester. The recipient must see a financial aid counselor before aid will be released for the probationary semester. This aid is subject to adjustment or cancellation.
2. A minimum Southern College and cumulative GPA as listed in the requirements above must be attained by the end of the probation semester or financial aid will be suspended.

Procedure for Appeal and Reinstatement of Financial Aid

Students may submit a written appeal to the Academic Progress Committee describing the circumstances which contributed to their failure to make academic progress. This appeal must also include an outlined program of commitment to meet measurable satisfactory academic requirements.

When financial aid is suspended, a request for reinstatement may be made when the student has completed a minimum of 12 additional semester hours and has met the satisfactory academic requirements.

Provisions for Transfer Students

Financial aid for students transferring from other institutions will be determined by their academic standing, which will be calculated on all hours they have attempted. Students with a GPA below the policy stated above will be on financial aid probation, provided that they were eligible for continuing aid at the institution from which they transferred. Deletion of transfer hours from Southern College academic records may affect a student's financial aid eligibility depending on the number of hours deleted. Any change in academic program such as from a bachelor to associate or from associate to a one-year certificate degree may affect a student's eligibility for financial aid.

If financial aid has been suspended at the previous institution, the student must follow Southern College's procedure for appeal and reinstatement of financial aid.

No federal aid will be available for classes taken as a transient student without a transient letter and approval by the Academic Progress Committee.

A Southern College student who is enrolled as a transient student on another campus will be eligible for financial aid based on the number of hours enrolled on the Southern College campus. The following is an example:

1. Enrollment status of 12 hours or more on SC campus and additional transient hours are taken off-campus — 100% eligibility.
2. Enrollment status of 9-11 hours on SC campus and additional transient hours taken off-campus — 75% eligibility.
3. Enrollment status of 6-8 hours on SC campus and additional transient hours taken off-campus — 50% eligibility.

Eligibility for Federal Pell Grant, Federal Family Education Loans (Stafford, Unsubsidized Stafford, Parent PLUS) will be based on total hours enrolled at both institutions. Costs at both institutions will be a factor in determining eligibility.

FINANCIAL AID APPLICATION PROCEDURES

To apply for all types of financial aid, the following documents must be submitted annually for the federal, state, and institutional aid programs:

1. The Free Application for Federal Student Aid (FAFSA).
2. The Southern College application for financial aid (Form B).
3. Southern College Admissions application.
4. The financial aid transcript (required only of students who attended other colleges or universities before coming to Southern College).
5. Copies of parents' income tax return (exact signed copies of all schedules and W-2 forms sent to IRS).
6. Copies of student income tax return including W-2 forms.
7. Guaranteed Student Loan applications from hometown lender. (Southern College has arranged for last-resort lenders for students whose hometown lenders do not participate in the GSL program or for any reason refuse to make the loan).

Applications are available in January of each year and may be obtained by contacting Southern College Student Finance Office. Students are urged to complete applications as early as possible after the family income tax returns have been completed. Income tax returns only have to be completed, not necessarily mailed to the IRS before submitting the financial aid application. Some students who were enrolled the previous year may receive a preprinted Federal Aid Renewal Application.

Financial Aid Award Procedures

An Offer of Financial Aid will be sent to each applicant after Southern College's Student Finance Office receives the results from the federal processor. To confirm and reserve the funds offered, the student must return the signed acceptance of the offer within **ten days** of receipt.

Financial aid awards are made on a rolling basis, as long as funds are available, with the neediest students receiving priority of funds. The financial aid award package will usually consist of: 1) work, 2) loan, 3) grant or scholarship.

Disbursement of Financial Aid Funds

Financial aid awards are disbursed equally each semester. To have funds released to statements, students must sign vouchers, and other required documents at the Disbursement Office in Wright Hall. Funds cannot be credited to student statements until this procedure is followed.

Financial Aid Overawards

When financial aid recipients receive additional resources not included in the financial aid award letter, it is the student's responsibility to report these funds to the Student Finance Office. Federal regulations prohibit "overawards;" therefore, when the total of all resources exceeds the allowable student budget, financial aid awards must be adjusted. When financial aid funds have already been credited to the student's statement, any refunds due or overawards will be charged to the student's account.

STUDENT FINANCIAL AID REFUND AND REPAYMENT POLICIES

Financial Aid Refund Policy

The tuition refund policy for students withdrawing from classes is outlined on page 236.

Since financial aid is considered to be used first for direct educational costs (tuition, fees, room, board, and books), when a student withdraws from all classes and under the refund policy receives a refund of these charges, the refund will be used to reimburse financial aid credited to the student account. A refund must be determined based on Federal policy as well as the college policy, and refund to the student whichever amount is larger.

The amount that must be repaid to Federal Title IV funds and other financial aid is determined in the following manner:

All financial aid received is deducted from total charges for the period of enrollment to determine the Expected Cash Payment due from the student. Cash payments received are then deducted, and any remaining balance is the cash payment still due from the student.

After determining the cash payment still due, the tuition refund amount and any cash payment still due must be deducted from total charges. Total financial aid and cash payments received are then deducted to arrive at the amount that must be repaid to financial aid funds. (Examples of these calculations are available in the Student Finance Office).

According to Federal regulation, refunds due to Title IV programs must be allocated in the following manner:

1. Unsubsidized Stafford loans
2. Subsidized Stafford loans
3. Parent (PLUS) loans
4. Federal Perkins loans
5. Federal Pell Grant program
6. Federal SEOG program
7. Other Title IV programs
8. Any other Federal or State programs
9. Student/Parent.

Financial Aid Repayment Policy

There are specific repayment policies for students who withdraw and have received financial aid in excess of direct educational costs. An example would be the student who received a Stafford Loan and did not use the full amount for educational costs. A student owing a repayment to any federally funded student aid program cannot receive any type of federal student aid for future enrollment periods until repayments have been made.

VETERANS

Southern College is approved for the training of veterans as an accredited training institution. V.A. benefits are not available to students on the Orlando Campus, L. W. Blake Hospital, and Bayonet Point Medical Center, and may not be available for students enrolled in classes offered off the Collegedale campus. Those who qualify for educational benefits should contact the nearest Department of Veterans' Affairs.

Veterans or other eligible persons are required to attend classes in order to be eligible for educational benefits. Southern College is required to report promptly to the V.A. the last day of attendance when an eligible student withdraws or stops attending classes regularly.

A recipient may not receive benefits for any course that does not fulfill requirements for his/her stated degree and major. Audited courses, noncredit courses (except for a required remedial course), and correspondence work cannot be certified.

TYPES OF FINANCIAL AID

Scholarships

Southern College institutional scholarships are awarded from a variety of scholarship funds to students who have financial need, are achieving academically, and are working part time. These awards usually range from \$200 to \$1,000 per year depending upon the student's need and availability of funds.

If the student's grade point average (GPA) falls below the required level, the SC scholarship will be deferred or canceled. The amount of the SC scholarship will be reduced by the amount the student receives in funding from other resources that exceeds the total budgeted expenses for the school year subject to federal regulations.

The following scholarships are awarded to eligible students regardless of financial need:

ACADEMIC SCHOLARSHIPS are awarded to incoming freshmen who graduate with a 3.50 or higher GPA from academies or secondary schools, are recommended by their faculty, and enroll at Southern College for a minimum of twelve semester hours.

For those incoming freshmen students who have a high school GPA of 3.85 or above and an ACT composite score of 28 or above, a high academic scholarship of \$6,500 over four years is available. Two thousand dollars will be awarded the first year at SC and \$1,500 for each of the following three years. The student must maintain an SC GPA of 3.50 and carry not less than 14 semester hours of class work each semester enrolled.

ACT SCHOLARSHIPS — Incoming freshmen with a composite score of 26-30 are eligible for a \$700 award if they maintain a college GPA of 3.00 each semester of the first year they are enrolled at Southern College. Incoming freshmen with a composite score of 31-36 are eligible for an \$850 award if they maintain a college GPA of 3.25 each semester of the first year they are enrolled at Southern College. Students must enroll at Southern College for a minimum of twelve semester hours.

CHURCH AND/OR CONFERENCE MATCHING PLAN — Southern College will participate in a matching plan, matching one-third of the total scholarship funds received from a church or conference. The student must be enrolled for a minimum of 12 hours. Funds will not be matched for past-due accounts for prior years and will not exceed \$1,000 per student per year. The participating church and/or conference must complete and sign the matching application form certifying that their appropriation came from local church funds, not from the student, the student's parents or relatives, and is not for wages or pay for services rendered by the student. These forms may be obtained from the Student Finance Office.

LEADERSHIP SCHOLARSHIPS are awarded to incoming freshmen who have served as S.A. President, S.A. Vice-President, S.A. Spiritual Vice-President, Senior Class President, Yearbook Editor, and School Paper Editor, provided they enroll at Southern College for a minimum of twelve semester hours.

NATIONAL ACADEMIC RECOGNITION AWARDS are awarded to finalists in the National Merit contest. Finalists receive tuition-free scholarship for four continuous years at Southern College. They must maintain an SC GPA of 3.50 and enroll each semester for not less than 15 semester hours.

SOUTHERN SCHOLARS' SCHOLARSHIP — After completing one year in the honors program, Southern Scholars may receive a waiver for the cost of auditing one class each semester that they remain in the program. Upon successful completion of the program students will receive a tuition refund equivalent to four three-hour classes. The "per hour" rate for a 16-hour class load will be the basis for calculating the refund. Southern Scholars also receive a 100 percent tuition waiver for Honors Seminar, HMNT 451, 452, calculated according to the tuition waiver policy explained on pages 236 and 237.

STUDENT MISSIONARY/TASK FORCE SCHOLARSHIPS — Students who were approved by Southern College to serve as Student Missionaries or Task Force Workers may upon the completion of a year of service apply for a \$1,000 scholarship through the Chaplain's Office if they are enrolled at SC for a minimum of 12 hours.

SUMMER CAMP SCHOLARSHIPS — Students participating in conference-sponsored summer camp programs will receive credit from Southern College for 50 percent of the net amount received to the student's statement upon enrollment of a minimum of 12 semester hours. Students participating in the John Hancock Center for Youth Ministry Inner City summer program will be provided scholarship assistance on the same basis as summer camp scholarship recipients. Funds will not be matched for past due accounts for prior years. Taxes may be withheld from these scholarship funds.

Grants

ENDOWMENT GRANT — These funds are awarded to students who have established financial need through the federal aid application process. Awards are made on funds available basis. Notification to eligible recipients will be made through the Offer of Financial Aid.

Eligibility and requirements for disbursement of Endowment funds are listed on the Offer of Financial Aid. Students should be aware that they must work the required number of hours in order to receive Endowment Grant funds.

FEDERAL PELL GRANT PROGRAM is a federal program which provides grant assistance directly to eligible first-degree undergraduate students. A student's eligibility for a Pell Grant is based on a congressionally-approved formula which considers family financial circumstances.

FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT — Limited funds are available to students with exceptional financial need.

STATE STUDENT INCENTIVE GRANTS — These grants are made possible from federal and state funds to the residents of Alaska, Connecticut, Delaware, District of Columbia, Maine, Maryland, Massachusetts, New Jersey, Oklahoma, Pennsylvania, Rhode Island, Tennessee, Vermont, Washington, and West Virginia. Students should check with their states' grant agencies for additional information.

Loans

FEDERAL NURSING STUDENT LOANS are available to nursing students only. Repayment and five percent interest begins nine months after a student graduates, leaves school, drops below half-time enrollment, or drops from the nursing program.

FEDERAL PERKINS LOAN (formerly National Direct Student Loan) — Under this program students can borrow money from the federal government through the school. Repayment and five percent interest begin nine months after a student graduates, leaves school, or drops below half-time enrollment.

FEDERAL PLUS LOANS enable **parents** with good credit histories to borrow for each child who is enrolled at least **half-time** and is a dependent student. These loans, like Federal Stafford Loans, are made by a lender such as a bank, credit union, or savings and loan association. The yearly loan limit is students' **cost of education** minus any estimated financial aid they are eligible for.

For PLUS loans first disbursed on or after July 1, 1995, the interest rate will be variable, but not higher than 9 percent. From July 1, 1994, through June 30, 1995, the interest rate was 8.38 percent for parents who borrowed on or after October 1, 1992. Variable interest rates are set each June. For more information on their interest rate, parents should contact the organization that holds their loan. That organization will also notify the parents of later interest rate changes.

Students' parents will pay an "origination fee" of **3 percent** of the loan principal. This amount must be deducted proportionately from each disbursement made. The lender may collect an insurance premium of up to **1 percent** of the loan principal, which must also be deducted proportionately from each disbursement.

The procedure for applying is the same as for a Federal Stafford Loan. Note that the school can refuse to certify a loan application, or can certify a loan for an amount less than a student's parents would be eligible for.

For loans first disbursed on or after October 1, 1993, the lender must send the loan proceeds to your school in at least two payments. Payments will be sent either by electronic transfer or by check made co-payable to your school and your parents. No payment may exceed one-half of the loan amount.

Repayment begins within 60 days after the final loan disbursement. There is no "grace period" for these loans.

If a deferment — a postponement of repayment — applies (**including** a deferment for being in school), students' parents won't begin repaying any **principal** until the deferment ends. Deferments don't apply to

interest, although the organization that holds the loan may let the interest accumulate until the deferment ends. Note, however, that the interest will be added to the principal, increasing the amount of principal that will need to be repaid.

FEDERAL STAFFORD LOANS are low-interest loans made to students attending school at least **half-time**. Loans are made by a lender such as a bank, credit union, or savings and loan association. These loans are insured by the **guaranty agency** in each state and reinsured by the federal government. A borrower must repay this loan.

Students may qualify for a "subsidized" Federal Stafford Loan, which is based on financial need. But, students can also get an "unsubsidized" Federal Stafford Loan regardless of need, that is, regardless of their or their family's income. It is possible for a student to have a Federal Stafford Loan partly based on financial need and partly not on need.

Dependent undergraduate students can borrow up to:

- \$2,625 if they are first-year students enrolled in a program of study that is a full **academic year**.
- \$3,500 if they have completed the first year of study and the remainder of their program is a full **academic year**.
- \$5,500 a year if they have completed two years of study and the remainder of the program is at least one **academic year**.

For periods of undergraduate study that are less than an **academic year**, the amounts one can borrow will be less than those above. Talk to a financial aid administrator to find out how much may be borrowed.

Independent undergraduates can borrow up to:

- \$6,625 if they are first-year students enrolled in a program of study that is a full **academic year**. (At least \$4,000 of this amount must be in **unsubsidized Stafford Loans**.)
- \$7,500 if they have completed the first year of study and the remainder of the program is a full **academic year**. (At least \$4,000 of this amount must be in **unsubsidized Stafford Loans**.)
- \$10,500 a year if they have completed two years of study and the remainder of their program is at least one **academic year**. (At least \$5,000 of this amount must be in **unsubsidized Stafford Loans**.)

The amounts given are the **maximums** that can be borrowed; however, students can't borrow more than the **cost of education** at Southern College minus any other financial aid they receive.

The total Stafford Loan debt one can have outstanding as a dependent undergraduate is \$23,000; as an independent undergraduate it is \$46,000.

Work

FEDERAL COLLEGE WORK-STUDY PROGRAM — Under the work-study program, the employer pays a small part of the student's wages, and the government pays the rest. Most work-study positions are on campus. Students can work part-time while they are in school; they can work full time during the summer and other vacation periods. The basic pay rate is usually the current minimum wage. This may vary depending on the skill and experience needed for the job.

OTHER GRANTS, LOANS, AND SCHOLARSHIPS

Grants, loans, and scholarships are available to students meeting the above requirements or having exceptional academic achievements. Details concerning amounts and qualifications for recipients of these funds can be obtained from the Student Finance Office.

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- Frank Di Memmo, M.S. (1980) Director, Instructional Media

Library

- Peggy Bennett, M.S.L.S. (1971) Director, Libraries
Loranne Grace, M.L.S. (1970) Associate Librarian
Katie Hunt, M.S.L.S. (1976) Director, ANGEL Program
Patricia Morrison, M.L.S. (1981) Assistant Librarian

Records and Advisement

- Joni Zier, M.A. (1993) Director, Records and Advisement
Sharon McGrady, B.A. (1977) Assistant Director, Records and Advisement

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- Ronald Barrow, Ph.D. (1979) ... Vice President, Admissions and College Relations

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- Jim Ashlock, Ed.D. (1991) Director, Alumni/College Relations
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Ingrid Skantz, B.S. (1990) Publications Assistant

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- Victor Czerkasij, B.A. (1993) Associate Director
 Bob Silver, M.A. (1985) Director, Telecounseling
 Merlin Wittenberg, M.Ed. (1984) Associate Director

WSMC FM90.5 (NPR 90)

- Dan Landrum (1989) General Manager, WSMC FM90.5

FINANCIAL ADMINISTRATION

- Dale J. Bidwell, B.S. (1989) Senior Vice President, Financial Administration
 Helen Durichek, B.A. (1986) Associate Vice President, Financial Administration

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- Jack Ferneyhough, B.S. (1989) Treasurer
 Burt Pooley, M.A. (1992) Chief Accountant

Industries

- Jere Connerly (1961) Assistant Manager, The College Press
 Roy Dingle, B.S. (1974) Baker, Village Market
 Harold Jet (1993) Assistant Manager, Village Market
 Allen Olsen (1984) General Manager, The College Press
 Larry Payne (1993) Production Manager, The College Press
 Jim Burrus (1993) Manager, Village Market
 Rita Wohlers (1987) Manager, Campus Shop

Information Services

- John Beckett, B.A. (1975) Director
 Judy DeLay, B.A. (1982) Assistant Director
 William Estep (1979) Computer Operations Manager
 Thom Nelson, B.A. (1985) Computer Analyst/Programmer
 Clifford Williams, B.A. (1994) Computer Analyst/Programmer
 Bob Wright, M.A. (1992) Microcomputer Specialist

Personnel/Student Employment

- Elsworth Hetke, M.A. (1991) Director, Personnel/Student Employment

Services

- Mark Antone, (1984) Director, Landscape Services
 Earl Evans, B.S. (1977) Director, Food Service
 Barry Becker (1993) Director, Motor Pool
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 Clarence McCandless (1979) Director, Service

Student Finance

- Ken Norton, B.S. (1988) Director, Student Finance
 Donna Myers (1972) Assistant Director, Student Finance

DEVELOPMENT

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STUDENT SERVICES ADMINISTRATION

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Campus Chaplain

- Ken Rogers, M.A. (1986) College Chaplain

Campus Safety

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 Donald Hart, A.S. (1993) Associate Director, Campus Safety

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Jim Wampler, Ed.S. (1993) Director, Counseling
Midge Dunzweiler, M.S. (1993) Associate Director, Counseling

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Eleanor Hanson, R.N. (1966) Director, Health Service
David Winters, O.D. (1980) College Physician

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Sharon Engel (1986) Dean of Women
Beverly Ericson, B.S. (1988) Assistant Dean of Women
Stan Hobbs, M.Ed. (1985) Dean of Men
Kassandra Krause, A.S. (1987) Assistant Dean of Women
Dwight Magers, M.A. (1993) Associate Dean of Men
Dennis Negron, B.A. (1993) Assistant Dean of Men

COLLEGE PASTORS

Randy Harr, B.S. (1991) Youth Pastor
James Herman, B.A. (1976) Children's Ministries Pastor
Dwight Herod, M.Div. (1995) Family Ministries Pastor
Ed Wright, D.Min. (1985) Pastor

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Douglas Bennett, Ph.D., *Professor Emeritus of Religion*
Olivia Brickman Dean, M.Ed., *Associate Professor Emerita of Education*
Jerome Clark, Ph.D., *Professor Emeritus of History*
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INSTRUCTIONAL FACULTY

(Dates in parentheses indicate the beginning year of employment at Southern College.)

Pamela Ahlfeld—M.S., Associate Professor of Nursing

B.S., Southern Missionary College; M.S., Georgia State University. (1990)

J. Bruce Ashton—D.M.A., Professor of Music

B.Mus., Capital University; M. Mus., American Conservatory of Music; D.M.A., University of Cincinnati. (1968)

Wiley Austin—M.S., Associate Professor of Chemistry

B.S. Pacific Union College; M.S., Stanford University. (1988)

Joyce L. Azevedo—Ph.D., Associate Professor of Biology

B.S., Union College; M.A. and Ph.D., University of California, Riverside. (1992)

Fern Babcock—M.A.T., Assistant Professor of Education

B.L.A., Pakistan Adventist Seminary and College; M.A.T., Andrews University. (1991)

George Babcock—Ed.D., Professor of Education

B.A., Columbia Union College; M.A. and Ed.D., Andrews University. (1991)

Peggy Bennett—M.S.L.S., Director of Libraries, Associate Professor of Library Science

B.S. Southern Missionary College; M.S.L.S., Florida State University. (1971)

Orville Bignall—Ph.D., Associate Professor of Physics

B.S., Southern College of Seventh-day Adventists; Ph.D., Florida State University. (1992)

Jack Blanco—Th.D., Ellen G. White Professor of Religion

B.A., Union College; M.A. and B.D., SDA Theological Seminary; M.Th., Princeton Theological Seminary; Th.D., University of South Africa. (1983)

Julie Boyd-Penner—M.Mus., Assistant Professor of Music

B.Mus., University of Idaho; M.Mus., Eastman School of Music. (1993)

Ron Clouzet—M.Div., Assistant Professor of Religion

B.A., Loma Linda University, La Sierra; M.Div., Andrews University. (1993)

Herbert Coolidge—Ph.D., C.P.A., Professor of Business Administration

B.S., Southern Missionary College; M.B.A. and Ph.D., Michigan State University. (1991)

Glenda Davidson—M.S.N., Associate Professor of Nursing

B.S., Southern Missionary College; M.S.N., Troy State University. (1992)

Don Dick—Ph.D., Professor of Speech Communication

B.A., Union College; M.A., University of Nebraska; Ph.D., Michigan State University. (1968)

Alberto dos Santos—Ed.D., Professor of Education

B.A., University of South Africa; Diploma, Orion Institute of Switzerland; M.A. and Ed.D., Andrews University. (1995)

Ron du Preez—D.Min., Associate Professor of Religion

B.A., Helderberg College; M.A., M.Div., and D.Min., Andrews University. (1992)

John Durichek—M.A., Associate Professor of Computer Science and Technology

B.S., Southern Missionary College; M.S., George Peabody College for Teachers. (1969)

Robert D. Egbert—Ph.D., Professor of Education and Psychology

B.A., Walla Walla College; M.S.Ed., Ed.S., and M.Ed., University of Idaho, Moscow; Ed.D., Temple University; Ph.D., Union Institute. (1993)

David Ekkens—Ph.D., Professor of Biology

B.A. and M.A., Andrews University; Ph.D., Loma Linda University. (1990)

Richard Erickson—M.B.A., Associate Professor of Business Administration

B.S. and M.B.A., Austin Peay State University. (1984)

Ted Evans—M.Ed., Associate Professor of Physical Education

B.S., Andrews University; M.Ed., University of Tennessee at Chattanooga. (1974)

Mari-Carmen Gallego—M.A.T., Assistant Professor of Modern Languages

Diplome d'Etudes Superieures en Theologie, Institut Adventiste du Saleve, Collonges sous Saleve, France; Diplome Supérieur d'Etudes Francaises Modernes, Ecole Internationale de Langue et Civilisation Francaises, Paris; M.A.T., Andrews University. (1992)

Lisa Gano—M.Acct., C.P.A., Assistant Professor of Business

B.B.A., Southern College of Seventh-day Adventists; M.Acct., University of Tennessee, Knoxville. (1994)

Robert Garren—M.F.A., Professor of Art

B.S., Atlantic Union College; M.F.A., Rochester Institute of Technology. (1968)

Phillip G. Garver—Ed.D., Professor of Physical Education

B.S., Southern Missionary College; M.S., Eastern Michigan University; Ed.D., University of Tennessee, Knoxville. (1976)

David Gerstle—M.S.N., Assistant Professor of Nursing

B.S., Union College; M.S.N., University of Texas. (1994)

Orlo Gilbert—M.Mus. Ed., Professor of Music

B.M.E., La Sierra College; M.Mus.Ed., Madison State Teachers College. (1967)

Judith Glass—M.Mus., Professor of Music

B.Mus. and M.Mus., University of Texas at Austin. (1975)

Loranne Grace—M.L.S., Associate Professor of Library Science

B.S., Walla Walla College; M.L.S., University of Washington. (1970)

Jon Green—Ph.D., Professor of Education

B.A., La Sierra College; M.S., Loma Linda University; M.A., Andrews University; Ph.D., Georgia State University. (1989)

Floyd Greenleaf—Ph.D., Professor of History/Senior Vice President for Academic Administration

B.A., Southern Missionary College; M.A., George Peabody College for Teachers; Ph.D., University of Tennessee, Knoxville. (1966)

Leona Gulley—Ed.D., R.N.C.S., N.C.C., Professor of Psychology

B.S., Columbia Union College; M.A., Far East Theological Seminary; M.H.S., Philippine Union College; M.S., Andrews University; Ed.D., Vanderbilt University. (1978)

Norman Gulley—Ph.D., Professor of Religion

Diploma in Theology, Newbold College; B.A., Southern Missionary College; M.A. and M.Div., Andrews University; Ph.D., University of Edinburgh. (1978)

***Richard Halterman—M.S., Associate Professor of Computer Science**

B.S., Florida Southern College; M.S., Florida Atlantic University. (1987)

Jan Haluska—Ph.D., Professor of English

B.S., Pacific Union College; M.A., Andrews University; Ph.D., University of Tennessee, Knoxville. (1981)

Lawrence E. Hanson—Ph.D., Professor of Mathematics

B.A., California State University; M.A., University of California; Ph.D., Florida State University. (1966)

Pamela Harris—Ph.D., Associate Professor of Journalism

B.A., Southern Missionary College; M.L.S., George Peabody College of Vanderbilt University; Ph.D., University of Tennessee, Knoxville. (1989)

William Hayes—Ph.D., Associate Professor of Biology

B.S. and M.S., Walla Walla College; Ph.D., University of Wyoming. (1990)

Carole Haynes—Ed.D., Professor of Education

B.S., Southern Missionary College; M.Ed., University of Tennessee at Chattanooga; Ed.D., University of Tennessee, Knoxville. (1982)

Ray Hefferlin—Ph.D., Professor for International Research in Physics

B.A., Pacific Union College; Ph.D., California Institute of Technology. (1955)

Volker Henning—M.A., Associate Professor of Journalism

B.A., Southern Missionary College; M.Div., Andrews University; M.A., University of Central Florida. (1989)

Debbie Higgins—M.A., Assistant Professor of English

B.A., Columbia Union College; M.A., Andrews University. (1993)

Lorella Howard—M.S.N., Associate Professor of Nursing

B.S.N., Southern College of Seventh-day Adventists; M.S.N., Vanderbilt University. (1994)

Bonnie Hunt—M.S.N., Associate Professor of Nursing

B.S., Loma Linda University; M.S.N., University of Tennessee, Knoxville. (1974)

Connie Hunt—M.S., Assistant Professor of Nursing

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Katy Hunt—M.S.L.S., Associate Professor of Library Science

B.S., Southern Missionary College; M.S.L.S., University of Tennessee, Knoxville. (1976)

Phil Hunt—Ed.D., Professor of Nursing

B.S., Southern College of Seventh-day Adventists; M.Ed., Columbia University; Ed.D., Andrews University. (1995)

Bradley G. Hyde—M.S.C.S., Associate Professor of Computer Science

B.A., Southern Missionary College; M.S.C.S., Maryland University. (1988)

Gordon Hyde—Ph.D., Professor of Religion

B.A., Andrews University; M.A., University of Wisconsin; Ph.D., Michigan State University. (1982)

Steven Jacks—M.Ed., Associate Professor of Physical Education

B.A., Loma Linda University; M.Ed., University of Tennessee at Chattanooga. (1980)

Barbara James—M.S.N., Associate Professor of Nursing

B.S., Southern Missionary College; M.S.N., University of Texas at Arlington. (1991)

John Keyes—Ed.S., Associate Professor of English

B.A., Asbury College; M.A., Central Michigan University; M.A.T., Andrews University; M.L.S., Vanderbilt University; Ed.S., George Peabody College for Teachers. (1987)

Henry Kuhlman—Ph.D., Professor of Physics

B.A., Emmanuel Missionary College; M.A., Western Michigan University; Ph.D., Purdue University. (1968)

Edward L. Lamb—M.S.S.W., A.C.S.W., Professor of Social Work and Family Studies

B.S., Union College; M.S.S.W., University of Tennessee, Knoxville. (1971)

Katie A. Lamb—M.S.N., Associate Professor of Nursing

B.S., Union College; M.S.N., University of Central Arkansas. (1972)

Donn Leatherman—M.Div., Associate Professor of Religion

B.Th., Canadian Union College; M.Div., Andrews University. (1992)

Merritt MacLafferty—M.A., Associate Professor of Computer Science

B.A., Union College; M.A., Pacific Union College. (1980)

Ben McArthur—Ph.D., Professor of History

B.A., Andrews University; M.A. and Ph.D., University of Chicago. (1979)

Caroline McArthur—M.S., Associate Professor of Nursing

B.S., University of Mississippi; M.S., Emory University. (1979)

Wilma McClarty—Ed.D., Professor of English

B.A. and M.A., Andrews University; Ed.D., University of Montana. (1972)

Robert Moore—Ed.D., Professor of Mathematics

B.A., Southern Missionary College; M.S., University of North Carolina; Ed.D., The University of Georgia. (1979)

Derek Morris—D. Min., Professor of Religion

B.A., Columbia Union College; M.Div. and D.Min., Andrews University; (1987)

Patricia C. Morrison—M.L.S., Associate Professor of Library Science/Assistant Librarian

B.S., East Carolina University; M.L.S., Vanderbilt University. (1981)

Laura Nyirady—M.S.N., Associate Professor of Nursing

B.S., Loma Linda University; M.S.N., Boston University. (1986)

Stephen A. Nyirady—Ph.D., Professor of Biology

B.A., Atlantic Union College; M.S. and Ph.D., Loma Linda University. (1986)

Cliff Olson—M.A., Associate Professor of Business

B.A., University of Northern Colorado; M.A., Colorado State University. (1989)

Helmuth K. Ott—Ed.D., Professor of Modern Languages

B.A., Loma Linda College of Arts and Sciences; M.A., Inter-American University; M.A. and Ed.D., Andrews University. (1971)

Mark Peach—Ph.D., Associate Professor of History

B.A., Walla Walla College; M.A., Washington State University; Ph.D., University of Chicago. (1987)

John Perumal—Ph.D., Assistant Professor of Biology

B.A., Spicer Memorial College; M.S., University of Pune; Ph.D., The University of Western Ontario (1993)

Dennis Pettibone—Ph.D., Professor of History

B.A., La Sierra College; M.A., Loma Linda University; Ph.D., University of California, Riverside. (1988)

†Mildred Muniz Preussner—M.S.N., Associate Professor of Nursing

B.S., Antillian College; M.S.N., Catholic University of Puerto Rico. (1990)

Helen Pyke—M.A., Associate Professor of English

B.A., Walla Walla College; M.A., University of Tennessee at Chattanooga. (1990)

Dana Reed—M.S., Assistant Professor of Nursing

B.S., Southern College of Seventh-day Adventists; M.S., Texas Women's University. (1992)

Kenneth Reynolds—Instructor of Industrial Technology (1992)

†Orlando Faculty

Arthur Richert—Ph.D., Professor of Mathematics

B.A., Southern Missionary College; M.A. and Ph.D., University of Texas. (1970)

MaryAnn Roberts—M.S.N., Associate Professor of Nursing

B.S. and M.S.N., Andrews University. (1992)

Marvin L. Robertson—Ph.D., Professor of Music

B.Mus., Walla Walla College; M.A., University of Northern Colorado; Ph.D., Florida State University. (1966)

Daniel Rozell—M.A., Associate Professor of Business Administration

B.S., Southern Missionary College; M.A., Central Michigan University. (1978)

Terrie Ruff—M.S.W., Assistant Professor of Social Work and Family Studies

B.S.W., Columbia College; M.S.W., University of South Carolina. (1990)

Adán Saldaña—M.A., Assistant Professor of Art

B.S., Southern Missionary College; M.A., Pratt Institute. (1994)

Vinita Sauder—M.B.A., Assistant Professor of Business Administration

B.A., Southern Missionary College; M.B.A., University of Tennessee at Chattanooga. (1983)

Helen Sauls—M.A., Associate Professor of Education

B.S., Southern Missionary College; M.A., University of Iowa. (1989)

Lynn Sauls—Ph.D., Professor of Journalism and English

B.S., Southern Missionary College; M.A., Peabody College of Vanderbilt University; Ph.D., University of Iowa. (1989)

Kathy Schleier, M.S.N., Assistant Professor of Nursing

B.S., Southern Missionary College; M.S.N., Georgia State University. (1991)

James Segar—M.A., Professor of Business Administration

B.A., Andrews University; M.A., Central Michigan University. (1993)

Sterling Sigsworth—Ph.D., Associate Professor of Chemistry

B.S., Ohio University; Ph.D., Pennsylvania State University. (1991)

Patricia Silver—M.A., Associate Professor of Music

B.S.C., Madison College; M.A., George Peabody. (1982)

David Smith—Ph.D., Professor of English

B.A. and M.A., Andrews University; Ph.D., University of Tennessee, Knoxville. (1981)

Peggy Smith—M.A., Assistant Professor of Business Administration

B.S., Southern Missionary College; M.A., Andrews University. (1988)

Shirley Spears—M.S., Associate Professor of Nursing

B.S., Southern Missionary College; M.S., University of Alabama at Birmingham. (1990)

Jean Springett—M.S., Associate Professor of Nursing

B.S., Columbia Union College; M.S., University of Maryland. (1991)

Jeanette Stepanske—Ed.D., Professor of Education

B.S., Andrews University; M.A., Ohio State University; Ed.D., University of Tennessee, Knoxville. (1979)

Carl Swafford—M.S., Assistant Professor of Education

B.A., Southern Missionary College; M.S., University of Tennessee at Knoxville. (1992)

Wayne E. VandeVere—Ph.D., C.P.A., Ruth McKee Professor of Entrepreneurship and Business Ethics

B.A., Andrews University; M.B.A., University of Michigan; Ph.D., Michigan State University. (1956)

Dale Walters—M.S., Associate Professor of Industrial Technology

B.S., Southern Missionary College; M.S., East Tennessee University. (1988)

Steven E. Warren—Ph.D., Professor of Chemistry

B.S., Andrews University; Ph.D., Arizona State University. (1982)

†**Erma Webb—M.S., Associate Professor of Nursing**

B.S., Union College; M.S., Loma Linda University. (1976)

Larry Williams—M.S.W., Associate Professor of Social Work and Family Studies

B.S., Southern Missionary College; M.S.W., University of Georgia. (1983)

Judy Winters—M.N., Associate Professor of Nursing

B.S., Southern Missionary College; M.N., Emory University. (1990)

William Wohlers—Ph.D., Professor of History/Vice President for Student Services

B.A., Walla Walla College; M.A., Andrews University; Ph.D., University of Nebraska. (1973)

† Orlando Faculty

1995-96 COLLEGE COMMITTEES

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Financial Aid/Academic Progress Committee: Ken Norton, Chair; Ron Barrow, Kara Ericson, Floyd Greenleaf, Donna Myers, Joni Zier, (Dale Bidwell, ex-officio)

Financial Appeals Committee: Ken Norton, Chair; Ron Barrow, Dale Bidwell (or designee), Cheryl Ashmore, Laetitia Swanson

Institutional Research and Effectiveness/Strategic Planning Committee: Mary Elam, Chair; Donna Myers, Secretary; Ron Barrow, Dale Bidwell, Helen Durichek, Floyd Greenleaf, Ben McArthur, Jack McClarty, Donald Sahly, William Wohlers, One Student

Key/Access Committee: William Wohlers, Chair; Don Hart, Elsworth Hetke, Charles Lucas, Dale Tyrrell

Loans and Scholarship Committee: Ken Norton, Chair; Ron Barrow, Sharon Engel (or designee), Stan Hobbs (or designee), Donna Myers, William Wohlers, (Dale Bidwell, ex-officio)

Personnel Committee: Dale Bidwell, Chair; Elsworth Hetke, Vice Chair and Secretary; Diane Bergquist, Jim Burrus, Lorella Howard, Ed Lamb, Ken Norton, Jan Rice, Linda Wilhelm

President's Cabinet: Donald Sahly, Chair; Ron Barrow, Dale Bidwell, Floyd Greenleaf, Jack McClarty, William Wohlers

Publications Committee: Ron Barrow, Chair; Susan Brown, Secretary; Jim Ashlock, Doris Burdick, Daryl Cole, Victor Czerkasij, Bob Silver, Ingrid Skantz, Merlin Wittenberg

Safety/Fire Prevention Committee: William Wohlers, Chair; Dale Tyrrell, Vice Chair/Secretary; Mark Antone, Barry Becker, Jim Burrus, Sharon Engel (or designee), Earl Evans, Phil Garver, Eleanor Hanson, Wayne Janzen, Charles Lucas, Ed Lucas, Skip McCandless, Dennis Negron, Allen Olsen, Dale Walters, Steven Warren

Trust Committee: Jack McClarty, Chair; Dale Bidwell, Vice Chair; Paul Smith, Secretary; Richard Erickson, Jack Ferneyhough, Burt Pooley

Faculty Senate

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Senate Executive Committee: Donald Sahly, Chair; Floyd Greenleaf, Vice Chair; Lisa Gano, Secretary; Dale Bidwell, Herbert Coolidge, Barbara James, Terrie Ruff, William Wohlers

Senate Committees

Academic Affairs Committee: Floyd Greenleaf, Chair; Barbara Beckett, Secretary; George Babcock, Ron Barrow, Jack Blanco, Peggy Bennett, Robert Garren, Phil Garver, Larry Hanson, Pam Harris, Ray Hefferlin, Ed Lamb, Katie Lamb, Ben McArthur, Sharon McGrady, Merritt MacLafferty, Steve Nyirady, Helmut Ott, Marvin Robertson, David Smith, Wayne Vandever, Dale Walters, Steven Warren, Joni Zier, Consultant: Frank Di Memmo

Academic Review Committee: Floyd Greenleaf, Chair; Cherie Smith, Secretary; Ron Barrow, Sharon Engel (or designee), Stan Hobbs (or designee), Ken Norton (or designee), Sharon McGrady, William Wohlers, Jim Wampler, Joni Zier

Academic Research Fund Committee: Floyd Greenleaf, Chair; Pam Harris, Ray Hefferlin, Ben McArthur, John Perumal

Advisement Committee: Sharon McGrady, Chair; Joyce Azevedo, Ron Barrow, Floyd Greenleaf, Debbie Higgins (1996), Merritt MacLafferty (1996), Helen Sauls (1996), Jim Segar, Larry Williams

Animal Care and Use Committee: Bob Egbert, Chair; Jack Blanco, David Ekkens, Linda Eldridge, William Hayes, Barry O'Neal, David Winters

Employee Wellness Committee: Phil Garver, Chair; Dale Collins, Melinda Cross, Helen Durichek, Laura Nyirady, Judie Port, Heather Williams-Neal, Merlin Wittenberg, (Dale Bidwell, ex-officio)

Faculty Affairs Committee: Katie Lamb, Chair; Orville Bignall, Richard Erickson, Judy Glass, Derek Morris, Helmut Ott, William Wohlers, (Donald Sahly, ex-officio)

Film Subcommittee: Don Dick, Chair; Doris Burdick, Earl Evans, Robert Garren, Loranne Grace, Ken Reynolds, Judy Winters, ‡2 students, (William Wohlers, ex-officio)

General Education Committee: Lynn Sauls, Chair; Glenda Davidson, Jon Green, Wilma McClarty, Dennis Pettibone, Helen Pyke, Jim Segar, (Floyd Greenleaf, ex-officio)

Honors Subcommittee: Wilma McClarty, Chair; Bonnie Hunt, Donn Leatherman, Ben McArthur, Steve Nyirady, Jeanette Stepanske, (Floyd Greenleaf, ex-officio)

Human Participants in Research Committee: Larry Williams, Chair; Wilma McClarty, Bob Moore, William Wohlers

Preprofessional Committee: Floyd Greenleaf, Chair; Cherie Smith, Secretary; all faculty from Biology/Chemistry/Physics, Sharon Engel (or designee), Stan Hobbs (or designee), Art Richert, William Wohlers

Promotions Committee: Peg Bennett (1996), Floyd Greenleaf, Larry Hanson (1996), Wilma McClarty (1997), Robert Moore (1998), Steve Nyirady (1998), Lynn Sauls (1997), (Donald Sahly, ex-officio)

Religious Life Subcommittee: Ken Rogers, Chair; Ron Clouzet, David Gerstle, Kassy Krause, Dennis Negron, Terrie Ruff, ‡2 students

Screening Subcommittee: Pat Silver, Chair; Pam Ahlfeld, David Ekkens, Beverly Ericson, Dwight Magers, Steven Warren, (William Wohlers, ex-officio)

Social/Recreation Committee: Peggy Smith, Chair; Herbert Coolidge, Glenda Davidson, Jeanne Davis, Earl Evans, Cherie Smith, Joni Zier, (Donald Sahly, ex-officio)

Student Activities Subcommittee: William Wohlers, Chair; Joyce Azevedo, Bert Coolidge, Beverly Ericson, Rick Halterman, Steve Jaacks, Dwight Magers, Kathy Schleier, ‡3 students (including S.A. Social VP)

Student Personnel Committee: William Wohlers, Chair; Midge Dunzweiler, Sharon Engel, Beverly Ericson, Earl Evans, Eleanor Hanson, Stan Hobbs, Kassy Krause, Dwight Magers, Dennis Negron, Ken Rogers, Dale Tyrrell, Jim Wampler

Student Services Committee: William Wohlers, Chair; Don Dick, Sharon Engel, Lisa Gano, Stan Hobbs, Ken Norton, Ken Rogers, Terrie Ruff, Pat Silver

Writing Committee: Helen Pyke, Chair; Bruce Ashton, Leona Gulley, Ray Hefferlin, Ben McArthur, Mark Peach, Dennis Pettibone, Lynn Sauls, (Floyd Greenleaf, ex-officio)

‡Appointed by Student Association

†Nominated by Faculty Senate

INDEX

Absences	39, 228	Bachelor of Arts Degrees, cont.	
Academic Advisement	36	International Studies	173
Academic Calendar	4, 5	French Emphasis	173
Academic Enrichment Services	19	German Emphasis	173
Academic Honesty	37	Spanish Emphasis	174
Academic Policies	22	Journalism (News Editorial)	159
Academic Probation and Dismissal	38	Mathematics	167
Acceptance	10	Music	182
Academic Probation	10, 38	Physics	200
Regular	10	Psychology	108
Accounting Courses	85	Psychology (Leading to Licensure, K-8)	109
Accreditation and Memberships	8	Public Relations	160
Admission		Religious Education	211
General Requirements	11	Religious Studies	212
International Students	12	Social Science (Leading to Licensure 1-8)	110
Nursing	192	Theology	211
Teacher Education	115, 116	Bachelor of Business Administration	
Transfer Students	11	Accounting	80
Advance Payment	230	Computer Information Systems	81, 100
Adventist Colleges Abroad (ACA)		Core Requirements	80
Financial Policy	231	Management	80
Allied Health Professions	46	Marketing	81
Anderson Lecture Series	19, 89	Bachelor of Music	179
Anesthesia	221	Bachelor of Science Degrees	
Application Procedure	13	Art—Computer Graphic Design	58
Architectural Studies	100	Behavioral Science	64
Art Courses	59	Biology	71
Assembly Attendance	40	Business Administration	81
Associate Degree Programs		Chemistry	94
Accounting	83	Computer Science	99
Allied Health	48	Family Studies	64
Architectural Studies	100	Health Science	139
Computer Applications	101	Health, Physical Education, and Recreation	137
Computer Science	101	Long-Term Health Care	82
Engineering Studies	129	Mathematics	167
General Studies	219, 220	Medical Science	219
Media Technology	161	Medical Technology	46
Nursing	192	Nursing	191
Office Administration	84	Office Administration	83
Pre-Cytotechnology	49	Physics	201
Pre-Dental Hygiene	50	Science & Math Studies (Leading to Licensure 1-8)	111
Pre-Nutrition and Dietetics	51	Social Work	64
Pre-Occupational Therapy	52	Wellness Management	138
Pre-Physical Therapy	53	Bachelor of Social Work	64
Pre-Physician Assistant	55	Bachelor of Technology Degree	153
Pre-Speech Language Pathology & Audiology	56	Graphic Arts	153
Pre-Surgeon's Assistant	57	Technical Plant Services	153
Auditing Courses	35	Bankruptcy	236
Bachelor of Arts Degrees		Biology Courses	73
Art	58	Board of Trustees	252
Biology	71	Executive Board	252
Broadcast Journalism	160	Bogenhofen	172
Chemistry	93	Courses from	176
Computer Science	99	Botany Courses	74
Education	109	Brock Hall	8
English	131	Business Administration Courses	87
History	145		

Campus Organizations	17
Canceled Classes	35
Certificate Programs	151
Auto Body Technician	151
Auto Mechanics Technician	152
Graphic Arts	153
Technical Plant Services	153
Chamber Music Series	19
Changes in Registration	34
Chaplain's Office	14
Chemistry Courses	95
Class Attendance	39, 40
Class Standing	23
Classic Film Series	20
CLEP Exams	41
Cognate Courses	22, 44
Collection Policy	235
College Administration	252
Collonges	172
Courses from	175
Community Service	25
Computer Center	9
Computer Graphic Design	58, 59
Computer Science and Technology	98
Computer Science Courses	103
Concert-Lecture Series	17
Continuing Education	19, 42
Correspondence Work	42
Counseling and Testing Service	15
Course Load	35
Course Numbers	44
Course Sequence	44
Credit Cards	239
Curriculum Chart	32
Cytotechnology	49
Daniells Hall	8
Dean's List	31
Degrees Offered	
Associate Degrees	32-33
Bachelor of Arts	32-33
Bachelor of Business Admin	80
Bachelor of Music	179
Bachelor of Science	32-33
Bachelor of Social Work	64
General Education Requirements	25-29
Major Requirements	31
Minor Requirements	31
Dental Hygiene	50
Dentistry	221
Dietetics	51
Dismissal	38
Distinguished Dean's List	31
E. A. Anderson Lecture Series	19
E. O. Grundset Lecture Series	20
Ecology Courses	74
Economics Courses	89
Education	107
Certification	117
Courses	120
Secondary	118
Elementary Education	109-111
Employment Service	16
Engineering	129

English	
Language Study	40
Proficiency in	12, 132
Examinations	41
Attendance	39
CLEP	41
Credit by	41, 42
Rescheduling	39
Special Fees	228
Waiver	40
Expenses	227
Advance Payments	230
Application Fee	13
Estimated Student Budget	227
Food Service	14
Housing	14, 229
Late Registration	34, 229
Music Lessons	228
Special Fees and Charges	228
Student Costs	227
Student Tithing	240
Tuition	227
Tuition Refunds	236
Extension Classes	12, 42
Facilities	8, 9
Faculty	255
Committees	261
Directory	255
Emeriti	254
Family Rebate	227
Financial Information	227
Aid	242
Family Rebate	227
Grants	248
Loans	249
Methods of Payment	232
Refund Policy	246
Repayment Policy	246
Satisfactory Academic Progress	243
Scholarships	247
Veterans	246
Florence Oliver Anderson Lecture Series	19
Foreign Study	172
Freshman Standing	10
General Education Course Requirements	25
General Education Requirements	26-29
General Studies	219, 220
Grading System	36
Graduation Requirements	22-23
Graphic Art Design	58
Grievance Procedure	39
Grundset Lecture Series	20
Hackman Hall	9
Health Education Courses	139
Health Insurance	229
Health Service	9, 15
History Courses	147
Honor Roll	31
Honors Program	248
Honors Studies Sequence	30
Housing Deposit	232

Incompletes	36
Industrial Technology	151
Instructional Media	8, 20
Insurance	16, 229, 237
Interdepartmental Programs	219
Interest on Past-Due Balance	235
International Students	12, 230

J. Mabel Wood Hall	9
Journalism Courses	162

Labor Regulations	239
Foreign Students	240
Late Registration	34, 229
Law	222
Ledford Hall	9
Libraries	20
Literature Courses	174
Long-Term Health Care Courses	89
Lynn Wood Hall	9

Major and Minor Requirements	31
Marine Biological Field Station	77
Marketing Courses	89
Mathematics Courses	168
Mazie Herin Hall	9
McKee Library	9, 20
Medical Science	219
Medical Technology	46
Medicine	222
Miller Hall	9

Minors	
Advertising	161
Art	59
Art—Computer Graphic Design	59
Behavioral Science	65
Biblical Languages	213
Biology	72
Broadcast Journalism	161
Business Administration	84
Chemistry	94
Computer Science	102
Education	112
English	132
Family Studies	65
History	146
Journalism (News Editorial)	161
Marketing	84
Mathematics	168
Music	182
Office Administration	84
Physical Education	139
Physics	201
Political Economy	146
Practical Theology	213
Psychology	108
Public Relations	162
Religion	212
Sales	162
Sociology	65
Technology	151

Music	
Courses	182
Curriculum	179
Ensembles	186, 187
Fees	228

Nondepartmental Courses	188
NPR 90	8, 21
Nursing	
Courses	196
Accreditation	191
Admission Requirements	192
Progression Requirements	195
Readmission	196
Nutrition Course	188

Objectives of the College	6
Occupational Therapy	52
Occupational Therapy Assistant	49
Office Administration Courses	90
One-Year Certificates	
Auto Body Technician	151
Auto Mechanics Technician	152
Graphic Arts	153
Requirements	23
Technical Plant Services	153
Optometry	224
Organizations	17
Orientation Program	16
Orlando Campus	199
Osteopathic Medicine	224

Pass/Fail	29, 140
Petition	39
Pharmacy	224
Physical Education Activity Courses	140
Physical Therapy	53
Physical Therapy Assistant	49
Physics Courses	202
Pierson Lecture Series	20
Placement	16
Post Graduate Tuition Plan	241
Prefix Glossary	45
Preprofessional Curricula	34
Anesthesia	221
Cytotechnology	49
Dental Hygiene	50
Dentistry	221
Engineering Studies	129
Graphic Arts	153
Medical Technology	47
Nutrition and Dietetics	49
Occupational Therapy	52
Optometry	224
Osteopathic Medicine	224
Physical Therapy	53
Physician Assistant	55
Respiratory Therapy	49
Speech Lang Pathology/Audiology	56
Surgeon's Assistant	57
Technical Plant Services	153
Veterinary Medicine	225
Probation	10, 38
Prospective Graduate	24
Psychology Courses	125
Public Relations	165

Radiation Technology	49
Radio Station, WSMC FM90.5	21
Refund Policy	236, 237, 246
Credit Refund	237
Financial Aid Refund Policy	246

Registration 34
Rehabilitation Act 14
Religion Center 9
Religion Courses 213
Repeated Courses 36
Residence Halls 14
Residence Requirements 24
Respiratory Therapy 49
Right of Petition 39

Sagunto 172
 Courses from 177
Satisfactory Academic Progress 38, 243
Scholarships 247
Secondary Education 118
Senior Citizen Tuition 241
Senior Placement Service 16
Sequence of Courses 43
Sociology Courses 65
Social Work Courses 67
Spalding Elementary School 9
Special Fees and Charges 228
Special Student 12
Speech Courses 136
Staley Lecture Series 20
Standards of Conduct 17
Student Association 16
Student Center 9
Student Employment Service 16
Student Life and Services 14
Student Records 37
Study-Work Program 35
Summer Graduates 24
Summerour Hall 9

Talge Hall 9, 14
Task Force Credit 31
Technology Courses 153
Testing Service 15
Thatcher Hall 9, 14
Transcripts 13, 24, 43
Transfer Credit 25
Transfer Students 11
Tuition Refunds 236, 246
Tuition Waivers 236

Upper Division Credit 22, 23, 44

Veterinary Medicine 225

Waiver Examinations 40
Wellness Management 138
Withdrawals 34, 237
Worker's Compensation 238
Worship Services 18
Wright Hall 9
Writing (W) Courses 25
WSMC FM90.5 (NPR 90) 8, 21

Zoology Courses 75, 76

1996

JANUARY							FEBRUARY							MARCH							APRIL							MAY							JUNE						
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1997

JANUARY							FEBRUARY							MARCH							APRIL							MAY							JUNE						
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1998

JANUARY							FEBRUARY							MARCH							APRIL							MAY							JUNE						
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